

# Undergraduate



CONCORDIA  UNIVERSITY  
W I S C O N S I N

Academic Catalog  
2009 - 2010

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## CORRESPONDENCE DIRECTORY

Academics . . . . .	Senior Vice President of Academics
Admission . . . . .	Vice President of Enrollment Services
Business Affairs and Payment of Fees . . . . .	Executive Vice President and Chief Operating Officer
Continuing Education . . . . .	Vice President of Operations
Education Colloquy . . . . .	Chairperson, Division of Education
General Information and Correspondence . . . . .	University Relations
Lay Ministry Colloquy . . . . .	Director of Lay Ministry Placement
Scholarship and Financial Aid . . . . .	Director of Financial Aid
Student Life . . . . .	Vice President of Student Life
Transcripts and Academic Reports . . . . .	Registrar
Web Page Address: . . . . .	<a href="http://www.cuw.edu">www.cuw.edu</a>

CONCORDIA UNIVERSITY WISCONSIN  
 12800 North Lake Shore Drive  
 Mequon, WI 53097-2402  
 Telephone: 262.243.5700  
 FAX # 262.243.4351

## 2009-2010 ACADEMIC CALENDAR

### SEMESTER I

August 29	Sat.	Opening Service
August 31	Mon.	First Day of Classes
September 7	Mon.	LABOR DAY – No Class
September 11	Fri.	Last Day to Add a Regular Semester Class
October 29-30	Thurs.-Fri.	Fall Break – No Traditional Undergrad. Classes
November 6	Fri.	Last Day to Drop a Regular Semester Class
November 25	Wed.	Thanksgiving Vacation – Begins after 4:00 p.m.
November 26	Thurs.	THANKSGIVING DAY
November 30	Mon.	Classes Resume
December 14-18	Mon.-Fri.	Final Examinations Christmas Recess Begins after Last Exam
December 19	Sat.	Graduation (1:30 p.m.)
December 25	Tue.	Christmas Day

### WINTERIM

January 4	Mon.	Classes Resume – Winterim Begins
January 22	Fri.	Winterim Examinations

### SEMESTER II

January 25	Mon.	Second Semester Begins
February 5	Fri.	Last Day to Add a Regular Semester Class
March 15-20		Spring Recess
April 1-5	Thurs	Easter break begins after 4:00 p.m.
April 4	Sun.	EASTER
April 5	Mon.	Classes Resume at 4:00 p.m.
April 9	Fri.	Last Day to Drop a Regular Semester Class
May 10-14	Mon.-Fri.	Final Examinations
May 15	Sat.	Graduation (1:30 p.m.)

### SUMMER SESSIONS

<b>3 weeks</b>	<b>6 weeks</b>
1 – May 17 - June 4 (No School May 31)	May 17 - June 25 (No School May 31)
2 – June 7 - June 25	June 7 - July 16 (No School July 4)

## THE UNIVERSITY

Concordia University Wisconsin is one of ten colleges or universities in the Concordia University System, which is owned and operated by The Lutheran Church - Missouri Synod.

## ADMINISTRATIVE OFFICERS

PRESIDENT.....	Patrick Ferry
EXECUTIVE VICE PRESIDENT AND CHIEF OPERATING OFFICER.....	Allen Prochnow
ASSISTANT TO THE PRESIDENT FOR GOVERNANCE AND PLANNING ..	Ross Stueber
SENIOR VICE PRESIDENT OF ACADEMICS.....	William Cario
SENIOR VICE PRESIDENT OF ADVANCEMENT .....	Duane Hilgendorf
VICE PRESIDENT OF OPERATIONS.....	Michael Besch
VICE PRESIDENT OF ENROLLMENT SERVICES.....	Kenneth Gaschk
VICE PRESIDENT OF INFORMATION TECHNOLOGY .....	Thomas Phillip
VICE PRESIDENT OF MARKETING .....	Anita Clark
VICE PRESIDENT OF STUDENT LIFE .....	Andrew Luptak
ASSISTANT VICE PRESIDENT OF ACADEMICS .....	Randall Ferguson
ASSISTANT VICE PRESIDENT OF ADVANCEMENT.....	Roy Peterson
CHAIR, FACULTY SENATE.....	Nathan Jastram

**DEANS**

ARTS AND SCIENCES . . . . .	Gaylund Stone
BUSINESS AND LEGAL STUDIES . . . . .	David Borst
EDUCATION . . . . .	Michael Uden
HUMAN SERVICES . . . . .	Ruth Gresley
STUDENT LIFE . . . . .	Steven Crook

**CONCORDIA UNIVERSITY WISCONSIN MISSION STATEMENT**

“Concordia University is a Lutheran higher education community committed to helping students develop in mind, body, and spirit for service to Christ in the Church and the world.”

**STATEMENT OF PURPOSE**

Concordia was founded in 1881 as a school of The Lutheran Church-Missouri Synod and officially became a university on August 27, 1989. Concordia provides a variety of educational opportunities for students who are preparing for vocations in the ministry of the church and for various professional and business careers in the community. The program of studies emphasizes a liberal arts curriculum and course offerings provide educational experiences that cultivate personal and vocational skills. The total program is centered in the Christian philosophy with a confessional Lutheran emphasis. It is governed by sound educational standards and is focused on the spiritual, academic, social, and physical development of students.

Concordia University seeks to develop mature Christians in whom knowledge and understanding of the Holy Scriptures, the inspired, inerrant Word of God and the source and norm of Christian truth, are united with personal faith in Jesus as God and Savior. Concordia’s spiritual resources are directed to the development of Christian faith and practice of Christian virtues so that the student can form value judgments and arrive at ethical principles required for purposeful living.

Concordia’s programs promote intellectual development and self-knowledge for the student’s personal growth and well-being. They nurture religious commitment, provide insights for Christian action in the world, and facilitate the ability to communicate effectively. The programs provide an opportunity for intelligent selection of vocations for service to God, church and society. They are designed to develop the professional competencies and commitment required for responsible participation and leadership in a complex society.

As a metropolitan educational institution in Wisconsin, Concordia is determined to use all available opportunities and resources provided by the community at large to enhance the educational development of its students. Concordia also integrates a global experience into its curriculum so that the student can better understand the church and our nation in a truly global environment. Concordia, in turn, within the bounds of its philosophy and resources, is interested in exerting a Christian influence on the community, nation, and world. This is done through traditional and non-traditional university programs, adult and continuing education, graduate programs, and global education. With a spirit of Christian commitment, supported by a broad liberal arts education, graduates of Concordia will intelligently and unselfishly enter challenging avenues of service to church and society.

## ADMISSION - TRADITIONAL PROGRAM

### GENERAL INFORMATION

Concordia University Wisconsin admits qualified students of any race, color, or national or ethnic origin to all programs and activities and is nondiscriminatory in the administration of its policies and programs.

To be considered for admission to Concordia University Wisconsin a student must be a graduate of a regionally accredited high school or one approved by its state university. Requests for exceptions to this requirement may be submitted by candidates who are otherwise qualified.

### ENTRANCE REQUIREMENTS

Each entering student must submit evidence of adequate preparation for college. A minimum of sixteen (16) units of secondary school work is required of which at least eleven (11) should be in basic liberal arts areas and should be distributed as follows:

**English:** At least three units of English but four are strongly recommended.

**Mathematics:** Two units of college preparatory mathematics, preferable, one each in algebra and geometry.

**Social Studies:** Two units in social studies, preferably one each in world history and American history.

**Natural Science:** Two units of science, preferably, one each in biology, physics or chemistry.

**Liberal Arts Electives:** Two units of the same foreign language or additional units in one or more of the areas above or in fine arts.

**Miscellaneous Electives:** Five units from any area of academic study. The student will find it to his/her advantage if the majority of this work is additional work in the areas listed above. German or Latin is recommended for the preseminary student.

Required is a minimum entrance grade point average of 2.5 which is based on at least:

- 3 units of English
- 2 units of Mathematics (Algebra and Geometry)
- 2 units of Science (Biology, Chemistry, Physics)
- 2 units of Social Studies (American History plus one elective)

However, certain programs require a higher grade point average. The University accepts the ESL Academic Report as satisfaction of English language proficiency for international students.

### PROCEDURE FOR ADMISSION

An application should be filed during the student's senior year in high school; however, later applications may be considered if space is available. Students may enter at the beginning of any term. The formal application should be forwarded to the Office of Admission and must be accompanied by a check or money order for \$35.00 made payable to Concordia University Wisconsin to cover the application. Upon enrollment this fee is applicable to tuition. This payment is nonrefundable.

The application consists of the following documents and information:

1. The completed application form.
2. Official secondary transcript (6 or more semesters) including test records. A FINAL TRANSCRIPT IS TO BE SUBMITTED AFTER GRADUATION.
3. Official transcript from each college attended.
4. Report of ACT scores from American College Testing Program. Information concerning this program may be obtained by writing American College Testing Program, P.O. Box 168, Iowa City, Iowa 52240, or may be available from the high school guidance department. The SAT (Scholastic Aptitude Test) may be accepted in lieu of the ACT.
5. International students must present a minimum score of 500 TOEFL for regular acceptance. Any International Student who can not present a 500 TOEFL must test through the International Office for placement and may be required to enroll in the ESL program.

## DEVELOPMENTAL AND CONDITIONAL ADMISSION

An applicant whose overall grade average is less than a C or whose grades and test scores indicate areas of academic concern not eligible for regular admission. However, upon the recommendation of the Vice President of Enrollment Services and with the approval of the Admissions Committee, such applicant may be granted Developmental (for the high school graduate) or Conditional (for the college transfer) admission. In either category the individual is considered to be on academic probation. Failure to attain a C average (2.00 G.P.A.) during the development or conditional semester may result in dismissal.

## SPECIAL ADMISSION

1. Individuals registering on a full or part-time basis for courses without the intention of receiving a degree are classified as non-degree students. The work can be for audit or for credit but does not automatically apply toward a degree program.
2. A person still attending high school may enroll as a special student in a course for audit or for credit after securing the approval of the high school principal and the University Registrar.  
Non-degree students who desire to make application for acceptance into a degree program must follow the regular application procedures for degree students. At the time of such application, credits earned as a nondegree student will be reviewed and the student apprised of how the credits can be used in meeting degree requirements.

## PROVISIONAL ADMISSION / PROBATION FOR ESL STUDENTS

This policy applies to international students who have completed the ESL program, but failed to score 500 on the TOEFL. In order to qualify for provisional admission a student must meet the following criteria:

1. The student must have received A's and B's in their ESL classes.
2. The student must obtain 2 letters of recommendation from non-ESL faculty.
3. The student's request for probation must be approved by the ESL faculty.

During a student's term of probation, the student will be allowed to take regular classes (12 cr. hrs. is recommended). The student must also continue to prepare for the TOEFL and demonstrate that a reasonable attempt has been made to pass it.

If after a semester of probation, a student still has not scored 500 on the TOEFL, the student's status will be evaluated by the ESL faculty.

## TOEFL POLICY

All ESL students who plan to enroll in a regular program at Concordia will be required to take the TOEFL no later than the semester in which they are enrolled in Advanced I ESL classes. They will be required to show their TOEFL score to their advisor in order to register for classes the following semester.

## ADVANCED STANDING

The University will recognize unusual secondary school work by means of advanced placement, and will grant credit to those who have taken especially enriched or accelerated courses before entering college or who have appropriate vocational or professional experience. Applicants qualify for such credit by satisfactory achievement on college-approved placement examinations, including the College Board Advanced Placement Tests, CLEP (College Level Examination Program), or faculty-authored challenge examinations. College credit total a maximum of 30 semester credits may be earned by satisfactorily completing such examinations.

Challenge exams can be given only in areas for which there is no CLEP test. Challenge exams must be approved by the responsible division and are to be administered by the department head. The acceptable level of performance is determined by the department. The fee for taking a challenge exam will be \$50.00, to be paid by the school to the writer/proctor, plus a \$25.00 per credit recording fee.

Retroactive credit is available in foreign languages, wherein credit may be given for pre-college foreign language study if the student takes the next highest level of the foreign language at this university and achieves a C or better. The student must request credit for the lower level course(s) that were bypassed.

For further information please contact the Registrar.



## TRANSFER POLICY

Transfer students applying for transfer credit at Concordia University Wisconsin are subject to the following requirements:

They must furnish the Admission Office with an official college transcript from each college attended. They must complete one semester satisfactorily at Concordia University Wisconsin before the award of transfer credit becomes final. Transfer credit may be awarded for each course in which the student received a grade of “C-” or better provided that the course is similar to one being given at Concordia University or is one which could be considered an elective. A student may receive a waiver of a course in which a grade of “D” was received at another college, but credit will not be granted. The Office of the Registrar will issue a statement showing the transfer credit allowed, established on the basis of an individual review of each student’s transcripts.

Normally only credits from a regionally accredited institution will be considered for transfer. Any exceptions will be made on an individual basis. In some cases there are articulated agreements that govern the transfer of credits.

Transfer students must take entrance and other examinations in the same way as entering freshmen. Transfer credits are not used in calculating the student’s grade point average.

A maximum of 70 semester credits will be accepted in a transfer from a two-year college. A maximum of 90 semester credits will be accepted in transfer from a four-year college/university. Transfer students may be required to submit scores from either the Scholastic Aptitude Test or the American College Test. They may also be required to submit their official high school transcript.

Questions not answered by the above may be addressed to the Registrar.

Graduate and Adult Education undergraduate students are admitted under policies and procedures articulated in their individual catalogs.

## TUITION AND FEES

Concordia University seeks to keep costs as low as is consistent with sound education requirements and proper provision for the daily needs of the student. Student costs for an education depends also on his/her living and spending habits.

Payment of fees is an integral part of the registration. A student will not be fully registered and cannot attend class until full payment of fees has been made. A student will not be permitted to register if previous financial obligations have not been met, nor will any student receive an official statement of credits grades or a degree/diploma if all obligations have not been satisfied.

The University reserves the right to modify fees without advance notice.

### REGULAR FEES

Please contact the Admission or Business offices for current tuition and room and board charges.

### ROOM AND BOARD FEES

Room fees cover the cost of furniture, utilities and maintenance. Board fees pay for meals in the university dining hall during the regular semester, not including vacations. A room security deposit of \$300.00 will be assessed to resident students, refundable under the terms of the housing contract after proper checkout, assuming no damage claims.

Students not enrolled for Winterim may apply for room and board on a pro-rated basis.

### SPECIAL FEES

#### Application Fee and Tuition Deposit

The initial application for admission must be accompanied by a non-refundable fee of \$35.00. This is assessed only on the original application and will be applied to the tuition upon enrollment. An applicant, upon receipt of notification of acceptance, is to forward a tuition deposit of \$100.00. It is non-refundable.

#### Special Registration Fee

Students who register at any time other than the appointed registration period are assessed a special fee of \$15.00.

**Correspondence Study Fee**

The course fee for correspondence study is assessed at the current credit rate.

**Graduation Fee**

A fee is assessed to senior status students to cover graduation expenses, based on the current fee schedule.

**Student Government Program Fee**

This fee is allocated upon the recommendation of the Student Government Association. The fee is administered by the Board for the support of student organizations, activities, and endeavors. Individuals, groups, and organizations may petition the Student Government Association for funding.

**Student Teaching and Course Fees**

An additional course fee is charged for Student Teaching. The fee is assessed at the current fee schedule amount. Any other course that carries a special fee will be listed in the course description.

**Overload Fee**

A student will be assessed the per credit overload fee for the amount of credits that exceed 18 in a semester.

**Applied Music Fee**

An additional per credit fee is assessed for certain applied music courses as found listed in the catalog descriptions. The fee is assessed at the current fee schedule amount.

**Transcript Fee**

A charge of \$5.00 per transcript is made for each transcript.

**Independent Study Fee**

A fee will be assessed for independent study proposals to cover special instructional costs. A full-time student will be assessed \$125 per credit during the fall or spring semesters for independent study credits up to an 18 credit load. All fall or spring independent study credits which result in more than 18 credits in a semester are charged the current per credit fee. The student's account balance must be at zero to sign up for an independent study class.

**Practicum/Internship Fee**

In the fall and spring semester, practicum/internships will be assessed \$60/credits if the semester credits are over 18. If the semester credits are fewer than 18, there is no additional fee. A \$60 per credit fee will be assessed for summer practicum/internships.

**Winterim Tuition**

Full-time students attending both the fall and spring semesters are entitled to the Winterim offering at the current Winterim fee schedule per credit rate for up to 4 credit hours. Students who are not enrolled and attending Winterim classes are not permitted to use housing facilities during this time. Room and board fees will be pro-rated for students desiring housing, but who do not live in the dormitory both semesters.

**METHODS OF PAYMENTS**

1. The University requires full payment of each semester's charges by August 15 or January 15 before the semester's classes.
2. Notification from the Financial Aid Office of grants, scholarships, or a Guaranteed Student loan will be accepted in lieu of payment by cash. Only one-half of such aid will be credited to the student's account for each semester.
3. Failing to observe this schedule or to make other satisfactory arrangements with the Business Office, the student will forfeit the right to begin or continue work at Concordia.
4. If students must rely on others for financial resources, they are held responsible for seeing to it that financial sponsors observe the payment schedule.
5. All fee payments should be addressed to Concordia University Wisconsin, 12800 N. Lake Shore Drive, Mequon, Wisconsin 53097. ATTN: Accounts Receivable. Please include the student ID # on payments.



**BUDGET PAYMENT PLAN**

This plan allows a student to pay University fees in convenient monthly payments between May 1 and April 30. The cost of this plan is \$100. There are no other fees or interest charges.

Information concerning this Plan will be forwarded separately. Call Tuition Payment Plan (Sallie Mae) Toll-Free (800) 239-4211, e-mail [paymentadvisor@slma.com](mailto:paymentadvisor@slma.com), or visit [www.cuw.edu](http://www.cuw.edu) for information.

**TUITION REFUND - TRADITIONAL PROGRAM**

Students who withdraw from the University will receive a pro-rated refund of educational fees and board fees, according to the following schedule (a week runs Monday to Sunday):

During first week of classes . . . . .	80 percent
During second week of classes . . . . .	75 percent
During third week of classes . . . . .	60 percent
During fourth week of classes . . . . .	40 percent
During fifth week of classes . . . . .	20 percent
After fifth week . . . . .	none

Students who are charged for Summer and Winterim class but then withdraw will receive refunds on a pro-rated basis as follows:

During first day of class . . . . .	80 percent
During second day of class . . . . .	75 percent
During third day of class . . . . .	60 percent
During fourth day of class . . . . .	40 percent
During fifth day of class . . . . .	20 percent
After fifth day of class . . . . .	none

**ROOM**

Students who choose to live on-campus will be required to sign a per semester room contract and have a room deposit on file. Students must remain on-campus for a minimum of one month and properly check-out of the room with Residence Life staff in order to be eligible for a refund of the room deposit. Students who withdraw from a room after the start of a semester will not receive any refund of the room fee.

**BOARD**

Students who choose to live on-campus will be required to select a per semester meal plan. Students who withdraw from their room after the start of a semester will be able to receive a pro-rated refund of meal plan fees according to the following schedule (a week runs Monday to Sunday)

During the first week of classes . . . . .	90 percent
During the second week of classes . . . . .	80 percent
During the third week of classes . . . . .	70 percent
During the fourth week of classes . . . . .	60 percent
During the fifth week of classes . . . . .	50 percent
During the sixth week of classes . . . . .	40 percent
During the seventh week of classes . . . . .	30 percent
During the eighth week of classes . . . . .	20 percent
During the ninth week of classes . . . . .	10 percent
During the tenth week of classes . . . . .	0 percent

**FINANCIAL AID INFORMATION**

**STUDENT FINANCIAL AID**

Concordia believes that the talents, hopes and ambitions of our students are among the most valuable resources our church and nation possess. With this in mind, Concordia continues to promote scholarship, loan, and employment opportunities for its qualified, deserving students who must find funds to attend college. The fundamental purpose of the financial aid program at Concordia is, therefore, to make it possible for students who would normally be deprived of a college education because of inadequate funds to attend Concordia. The amount of financial aid awarded is based

mainly on the applicant’s financial need. As a general rule the primary financial responsibility lies with the student and parents. Therefore, in order to help determine student need and make it possible to grant aid fairly, the parents of aid applicants are asked to file Free Application for Federal Student Aid (FAFSA). On the basis of this financial information, the University is able to determine the difference between University costs and the amount a student and parents can reasonably be expected to provide. This difference is defined as need. If a student is independent according to the Federal Department of Education definition, the student would submit a financial statement without parental information.

**GRANTS**

The following grants (non-repayable funds) offered at Concordia are based primarily on the undergraduate student’s demonstrated financial need.

**PELL GRANTS**

A federal Pell Grant provides funds to help pay for higher education. Awards range from \$200 to \$5,350 per year. The actual amount the student receives depends on the financial information reported on the Free Application for Federal Student Aid (FAFSA), whether a full-time or part-time student, and the cost of education.

An application must be filed annually through the Office of Financial Aid, Concordia University Wisconsin.

**WISCONSIN TUITION GRANT PROGRAM**

Wisconsin residents attending Concordia are eligible to apply for the Wisconsin Tuition Grant. The purpose of the grant is “to provide the Wisconsin student with greater freedom of education choice, thus enabling students to follow a path of self-development in harmony with their desires and the welfare of society.” The amount of the grant is based on the student’s financial need and the tuition at Concordia. Grants range up to \$2,900 per year. An application should be filed BY APRIL 1ST through the Office of Financial Aid, Concordia University Wisconsin.

**CUW SCHOLARSHIPS**

Concordia does encourage, through scholarships, those students who present a strong composite picture of outstanding academic achievement, unusual diligence, consecrated creativity, and self-sacrificing service.

Scholarship Stipulation	Church Vocation Scholarship	Music Scholarship	Presidential Scholarship	Regent Scholarship
application for financial aid required deadline April 1	yes	yes	yes	yes
full-time student status required	yes	yes	yes	yes
program of study	Luth. Social Wk. Pastoral Lay Ministry	theology education parish music	n/a	n/a
minimum high school GPA/ACT	3.0/18	3.25/18	3.60/21	3.0/18
annual amount of scholarship	up to \$1,200	up to \$3,000	up to \$11,000	up to \$7,000
cumulative GPA required for renewal	2.50	2.50	2.50	2.50
other requirements	Lutheran Church Missouri Synod membership	participation in music group	n/a	n/a
contact for possible nomination	no one, nomination is automatic	music department	admissions department	admissions department
nomination deadline	none	January 15	April 1	April 1

Church vocation scholarships are awarded to eligible students regardless of their grade level. The other scholarships are awarded only to persons entering Concordia for the first time. However, the scholarships may be renewed if renewal criteria are met.

## **SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG)**

A Federal Supplemental Educational Opportunity Grant (FSEOG) is a grant to help pay for education after high school. It is for undergraduates only and it does not have to be paid back.

Awards range up to \$2,000, depending on need, the availability of FSEOG funds, and the amount of other aid the student is receiving.

FAFSA must be filed annually, are not automatically renewed, and should be made through the Office of Financial Aid, Concordia University Wisconsin.

## **CONCORDIA UNIVERSITY GRANTS - SCHOLARSHIPS**

Through the generosity of many friends of Concordia University, numerous endowments have been established. The earnings of which financially assist students on the basis of merit and/or need. These grants and scholarships range from \$100 to \$4000 per year. Additional information about the nature of the endowments and program eligibility is available from the Financial Aid Department.

## **CONGREGATIONAL GRANTS, Lutheran Church - Missouri Synod**

In an indirect way, your congregation is assisting you with your educational expenses. Concordia receives financial support from The Lutheran Church-Missouri Synod of which your congregation is a contributing member. Hence, your tuition at Concordia is about one thousand dollars less than the tuition at most independent colleges.

In addition, many congregations directly assist their students with some educational expenses. Some students receive as much as \$2,000 from their congregation each year; however, the average amount received is closer to \$700.

Concordia encourages you to inquire about possible assistance through your pastor.

## **DISTRICT GRANTS**

Most districts of The Lutheran Church-Missouri Synod, through their Board of Student Aid and/or Recruitment, provide grants to students preparing for a church vocation. Grants, and on occasion loans, are awarded in amounts ranging from \$100 to \$1000 per year. The contact person and address for your district may be obtained from Concordia, your pastor, or the Lutheran Annual. Application deadlines vary by district.

## **SELF HELP**

### **STUDENT EMPLOYMENT**

Campus employment opportunities are available for students who wish to be employed. General fifteen hours of work per week should be considered the absolute maximum for full time students. A reasonable amount of employment could possibly improve the scholastic achievement of many students, as well as provide some financial resources for the student. Student employees will be paid via normal pay checks and pay periods. Students interested in on-campus employment can apply via the Falconry web site through the Career Services office. Concordia participates in the Federal Work Study Program, which enhances the opportunities for employment.

### **LOANS**

In some cases it is advisable for students to borrow in order to finance their education, provided they borrow only what is needed to maintain a minimum living standard. Students should use caution in borrowing and generally should not rely primarily on loans. Students who borrow will need to complete a promissory note for a Direct Student Loan via federal web site or from the Financial Aid Office. This loan program allows students to begin repayment after they graduate or after they discontinue their education. No interest accrues for the subsidized loan while the student is enrolled in school as at least a half-time student. Repayment begins six months after the student terminates his education. Interest then begins at an annual rate of 6.8% or less.

A Federal PLUS loan is a program for parents. They may borrow up to the cost of education minus any other financial assistance. The interest rate on PLUS is 7.9% with repayment beginning within 60 days after second disbursement. This program operates through Concordia's Financial Aid Office.

### **VETERANS EDUCATIONAL ASSISTANCE**

Concordia University in Mequon is approved as an educational institution at which students may receive veteran's benefits. Prospective students who have been in the Armed Forces should check with their local V.A. office for more complete details. They must file for benefits in Milwaukee if they have made no prior claims. If a claim file has already been established, they should file with that particular V.A. office.

## HOW TO APPLY FOR AID

A Free Application for Federal Student Aid (FAFSA) is necessary for application for scholarships, grants, loans, or employment from Concordia. These forms need to be completed annually for possible renewal of financial assistance. The FAFSA is to be completed after January 1 and returned for processing to the address indicated on the FAFSA. Signed copies of you and your parent's previous year's Federal Income Tax Returns are also required if federal verification is required. Within one month after your complete application has been received at Concordia, you will be advised as to the various types of financial assistance for which you are eligible. These include employment, loans, grants, and scholarships administered by Concordia. If you are accepted for admission, a firm financial commitment will be made to you. Students are encouraged to apply as early as they can, applications received by March 30th will receive full consideration for all Concordia assistance which is available. Applications received after that date will be subject to the limitations of available Concordia resources. As a general rule, one half of the grants, scholarships, and loans are applied toward each semester's tuition and fees. If you have any questions or need any forms, write or phone the Financial Aid Office. Detailed information is also available in the form of a fourteen page flipchart on the CUW web site. Any of the above forms are available on the CUW Financial Aid Website.

## RENEWAL OF FINANCIAL AID

Concordia makes every effort to continue assistance to a student through his years of college.

Renewal is based upon the following guidelines:

1. The financial aid application must be filed with the Office of Financial Aid by March 30. Late applications will be accepted and funded according to the availability of Concordia funds.
2. Free Application for Federal Student Aid (FAFSA) are encouraged to be filed between January 1 and April 1 in order to assure a timely application.
3. Renewal of scholarships, grants, campus employment, and loans depends upon Financial Aid, and the availability of funds and renewal criterion, including FAFSA results.
4. Any award or any portion thereof may be either declined by a student or revoked by Concordia if such assistance is not to the advantage of the student or the University.
5. As funds available must be divided among all deserving students, grants, scholarships, employment, or loans may not always be renewed in their original amounts.
6. You must be making satisfactory academic progress as defined below and maintain at least a 2.00 grade point average.

## FINANCIAL AID GOOD STANDING AND SATISFACTORY PROGRESS POLICY

Concordia University is required to establish and consistently apply standards of good standing and satisfactory progress to all students who receive funds from Title IV programs of federal financial assistance. This federal requirement is meant to ensure that only those students who make good progress toward their degree or certificate objective continue to receive financial assistance.

The following policies of good standing and satisfactory progress have an appeal procedure for use by anyone whose financial aid eligibility is terminated as a result of the Financial Aid Good Standing and Satisfactory Progress Policy. Those students affected will receive written notice of the appeal procedure which is detailed in Section D. Both standards of Good Standing and Satisfactory Progress must be met in order for a student to continue receiving financial aid. No part of this policy has an effect on any student's academic record either at this University or any other.

- A. GOOD STANDING:** A student enrolled in Concordia University is considered in good standing if allowed to continue in that degree or certificate program at Concordia. Detailed information pertaining to the minimum academic requirements of the University can be obtained by referring to the appropriate section of the University's catalog.
- B. SATISFACTORY PROGRESS:** Satisfactory progress is defined as successfully completing course requirements for 75% of the number credits for which a student enrolls and receives financial aid each semester, thereby making it possible for a student to make good progress toward a degree or certificate objective. "Successfully completing course requirements" is interpreted to mean that a grade of at least D- or P is received by a student. Incompletes, withdrawals, and audits, are considered unsatisfactory. However, incompletes, which are later changed into a grade of at least D- or P are satisfactory for Financial Aid Good standing and Satisfactory Progress Policy purposes (please note that D- is only "satisfactory" by financial aid standards not by University academic standards). Progress is also calculated on the basis of after a student's second year (no matter the number of credits) the student must have a cumulative GPA of 2.0 or better, this qualitative standard is reviewed again every year. It is the student's responsibility to notify the Financial Aid Office of such changes.
- C. FINANCIAL AID ELIGIBILITY WARNING STATUS:** When a student does not successfully complete 75% of the number of credits for which funding is approved during the semester or does not have a CGPA of 2.0 after the completion of the second year, financial aid eligibility warning status is imposed. Aid automatically continues through one semester of financial aid eligibility warning status. If a student does not make satisfactory progress during the semester of financial aid eligibility warning status, the student's eligibility for financial aid in later semesters is terminated. Eligibility can be regained by completing one semester under the conditions of satisfactory progress detailed above. The appeal procedure detailed in Section D exists for those students whose aid eligibility is so terminated.

- D. APPEAL PROCEDURE:** Upon receiving a written petition from a student whose financial aid eligibility has been terminated according to the provisions of section C, the appropriate advisor may reinstate the student's eligibility by means of a signed memorandum, accompanied by the petition, to the Director of Financial Aid. The petition to the advisor must explain why the student did not meet the Satisfactory Progress requirement (what extraordinary circumstances, if any, intervened) and how the student expects to continue making good progress toward a degree or certificate objective (what steps will be taken, if any, to make up the needed credits).
- E. TRACKING SYSTEMS:** Those students placed on eligibility warning status or whose eligibility for aid has been terminated will have their progress tracked in the next semester. Once satisfactory progress is resumed, full eligibility for aid consideration will be reinstated and the student's name removed from the tracking system.
- F. NORMAL COMPLETION TIME:** As a full time student, your eligibility for financial aid continues for a number of years equal to 150% of the normal completion time for the degree or certificate you are seeking to earn. The normal completion time for particular degrees or certificates are as follows:

Doctorate in Physical Therapy	3 years	Bachelor's Degree Education	5 years
Master's Degree	3 years	All other programs	4 years
Masters in Occupational Therapy	6 years	Certificate Programs	
		Lay Ministry	4 years
		Medical Assistant	1 year

## STUDENT SERVICES

### STUDENT LIFE

Student life at Concordia is full of opportunities for the students to find and express themselves in their own way. Indeed, the whole educational venture is directed toward and dependent upon the individual student. What happens in the classroom, in the residence halls, and in the community is what a Concordia education is all about.

This may be accomplished in many ways. Students may elect to be a part of student leadership structure and serve on one of the student activity committees. They may decide to develop skills in the performing and creative arts and take part in some of the many dramatic, musical, artistic, and literary pursuits available on campus. They may want to participate in intercollegiate or intramural athletics, religious or service activities, and social programs. The co-curricular program at Concordia is designed to help explore many avenues.

### CHRISTIAN SERVICE AND WORSHIP

Concordia, in its Christian service and worship program, endeavors to give the students a real purpose in life, to believe more firmly in the redemption wrought by Jesus Christ, and to learn to live their lives more fully and more understandingly as constrained by the love of Jesus Christ.

Chapel services are held Monday through Friday, as well as a Sunday morning worship service. Staff, faculty and students participate in these services through songs and messages, chancel dramas and other special presentations, along with guest speakers who have broad backgrounds in Christian service.

Devotions are held in the residence halls and personal Bible study is encouraged. In the classroom environment, faculty members seek to conduct classes emphasizing Christian growth and maturity along with the attainment of academic goals. Numerous opportunities exist on and off campus for students who seek to serve the University and its larger community. A variety of Christian service opportunities help individuals to express service through such related activities as tutoring fellow students, sharing the problems of the aged in area rest homes or joining with local churches in evangelism outreaches.

### CO-CURRICULAR ACTIVITIES

The co-curricular activities of the University are under the supervision of the Vice-President of Student Life. Faculty advisors and/or student leaders the areas of Spiritual Life and Student Life do most of the planning for co-curricular activity.

Even though co-curricular activities are on a voluntary basis and no college credit is granted, except for specific music activities, students who do participate are afforded the opportunity to explore their leadership potential and learn basic skills of organization, planning, implementation, and evaluation.

Co-curricular activities include lectures, concerts, dances, exhibits, forums, and other social functions. Campus organizations and clubs include religious, music, dramatic, business, nursing and recreational.

Drama is an exciting area of campus life. Productions have included musicals, children's theatre, one-act plays and a variety of other dramatic offerings.

The Concordia student has a wide range of musical activities to choose from. The student can audition for a role in a musical drama and participate in a full range of musical activity in choral, handbell, or instrumental ensembles.

## INTRAMURALS

A healthy balance between mental and physical activity is at the root of Concordia's intramural offerings. Exercise and competition can also help men and women grow and mature, whether possessing many athletic talents or very few. The important result of participation will be fun.

To help make maximum use of leisure time, Concordia provides extensive intramural opportunities through a program of leagues, tournaments, and recreational free play.

## ATHLETICS

Concordia University Wisconsin currently offers a variety of 19 sports on the intercollegiate level.

The men compete in the Illini-Badger Conference for football through the Fall of 2007. Baseball, basketball, cross country, golf, soccer, tennis, and wrestling compete in the Lake Michigan Conference. Track and Field (indoor and outdoor) Northern Athletics Conference.

The women compete in basketball, cross country, golf, soccer, softball, tennis and volleyball in the Northern Athletics Conference. Track and Field (indoor and outdoor) is an independent sport.

Both the men and women's teams have enjoyed success in their respective conferences. The Falcons have an excellent coaching staff and a rapidly growing, competitive athletic program.

The entire Concordia Athletic Department is governed by the NCAA Division III as of August 31, 1997.

## HOUSING

Residence halls at Concordia are in a real sense living/learning centers. They are minicommunities largely directed and managed by students serving in the capacities of Resident Assistants. A Resident Director for each residence hall serves in a supervisory capacity and is responsible to the Director of Residence Life.

The University provides a desk, chair, wardrobe, bed, and micro-fridge. The resident must furnish his/her own desk lamp, blankets, linens, pillows, towels, and toilet articles. Students who desire to stay in University housing should obtain further information from the Office of Residence Life. Each resident must make application for housing and sign a housing contract before taking up residence.

## GUIDANCE AND COUNSELING

At Concordia University every student receives personal consideration and attention. Each student receives the benefit of personal academic advising from a specific assigned faculty member. A Director of Counseling supervises the counseling activities on the campus. The director serves as a counselor for students desiring personal counseling. Students are referred to agencies in the community as individual need warrants.

## HEALTH SERVICES

The University's concern for wholistic growth and general well being of the campus community is further demonstrated through the maintenance of a health service. The professional services of a registered nurse, nurse practitioner, or medical assistant are contracted on a part-time basis.

The Health Service is operated at set hours for evaluation and treatment of minor illness, first aid, and consultation regarding health manners. A physician serves as a consultant and for referral. The Health Service instructs and supplies selected personnel with materials for dealing with minor problems. Serious illness and emergencies are referred to local professional health care agencies.

All Concordia students are encouraged to carry adequate health and accident insurance, either through the university or individual policies. Varsity athletes are required to show evidence of adequate coverage as a prerequisite for varsity participation. International students are also required to show evidence of adequate medical insurance coverage.

The Athletic Training Department works in conjunction with the Health Center for the health and well-being of Concordia's students, staff, and faculty. The Athletic Training Department is staffed by Board Certified Athletic Trainers, as well as student workers who are pursuing certification by the National Athletic Trainers' Association Board of Certification.

The Athletic Training Department offers first aid and rehabilitative care for soft tissue and bone injuries as well as after various orthopedic surgical procedures. Students, faculty, and staff can utilize this care by calling 243.4369 or stopping by the athletic training facility at the north end of the fieldhouse to make an appointment. Following a thorough evaluation of the injury or complaint, a plan for rehabilitative care will be provided. Modalities such as ultrasound, hydrocollators, and electric stimulation may be utilized to assist with the plan of care, along with specific exercises, flexibility, and functional assessment and correction.



## BOOKSTORE

The CUW Bookstore is located in the lower level of Albrecht Hall across from the Falcon Nest. Textbooks, supplies, greeting cards, clothing, gifts, and personal drug store items can be purchased in the CUW Bookstore. Also available for delivery are special order balloon and gift packages. Textbooks are available to purchase one week before classes begin each semester. Also, textbooks can be reserved on the bookstore web site approximately one month prior to the start of the fall and spring semester for undergraduate classes. Textbook buybacks take place twice each semester. One buy back takes place mid semester, and the other takes place during finals week at the end of each semester. An outside company performs textbook buybacks and also determines the price in which students receive for textbooks from each buyback.

For a listing of hours, questions, or additional information, contact the CUW Bookstore at 262/243-4349.

## COMPUTING FACILITIES

Concordia University Wisconsin has a number of student computer laboratories available for general usage. Computer lab and e-mail access is free to all CUW students who fill out the appropriate form and agree to abide by the university's ethical use guidelines established for computer users. Laser printing is also free of charge. All of our computers are connected to the internet.

Over 200 current PC's and Mac's are available for student use in six labs and other specified locations on campus. Some labs are open to students 24 hours a day 7 days a week. Concordia's labs provide a variety of popular software application packages.

## MAIL SERVICES

Individual mailboxes, located on the lower level of Heidelberg Hall, are provided for all resident students at no charge. The student resident's mailing address (different than the "administration" address) is:

(Student's name)  
 MB # \_\_\_\_\_  
 700 W. Highland Rd. Mequon, WI 53092-3304

Stamp sales and other outbound mailing and shipping services are also available to the campus community in lower Stuenkel Hall.

## PLACEMENT

Concordia University appoints several staff members as placement officers as an integral part of its service to students and graduates. Careful efforts are made to match the talents and desires of the student with the special needs of the prospective employer. Academic advisors or program directors considering the career goals of the student will refer the candidate to the appropriate placement officer.

## LEARNING RESOURCE CENTER

The Learning Resource Center (LRC) provides a variety of free services that aim to increase students' academic success. The LRC houses tutoring, the Supplemental Instruction program, the Writing Center, and Disability Support Services.

**Tutoring** – One-to-one tutoring is available for most courses. Tutors are typically upperclassmen who have demonstrated mastery of the course subject matter.

**Supplemental Instruction (SI)** – SI is an internationally renowned program that facilitates peer-led, structured group study sessions. SI is associated with traditionally difficult courses, and is available to students of all ability levels.

**Writing Center** – Writing Center consultants work with students at any stage of the writing process. For example. Consultants will work one-on-one with students to generate topic ideas, gather support for the thesis, check documentation formatting, and evaluate the paper for organization and clarity.

**Disability Support Services (DSS)** – DSS coordinates accommodations for students with disabilities in accordance with the university's compliance responsibilities under the law. Accommodation determinations for all students with documented disabilities will be made on a case-by-case basis.

## LIBRARY

The Library has the primary goal of meeting the information needs of CUW students as they participate in the University's programs of study in pursuit of Christian education at the undergraduate and graduate levels. The Library works together with the faculty and administration to select, acquire, and make available materials and resources consistent with fulfilling the University's mission of providing excellence in Christian education.

## THE OFFICE OF INTERNATIONAL STUDENT SERVICES (OISS) AND STUDY ABROAD

### NATURE AND SCOPE OF THE OFFICE

OISS provides students with opportunities to study away from the Concordia University Wisconsin campuses. Concordia's students are eligible to participate in the Concordia University Systems Visiting Student Program, which allows them to spend a semester or two at another of the system's ten colleges. The Office is also responsible for coordinating and promoting international opportunities for the university community as well as distributing global education grants among students to encourage international study.

Jerusalem University College in Jerusalem is considered an acceptable off campus center and is recommended to the students for study. See the Dean for details. Concordia University Wisconsin is associated with Jerusalem University College (JUC) in Israel. This university invites you to explore the Bible and cultures of the middle East through a semester-abroad experience. JUC has fulfilled this mission for forty years as the only Evangelical Christian school of higher learning within Jerusalem.

### MISSION STATEMENT FOR INTERNATIONAL STUDY

The Office of International Study seeks to help students gain a global perspective and develop the ability to interact with people of other cultures within a quality academic program.

### ELIGIBILITY FOR GLOBAL EDUCATION GRANTS

The Office of National & International Study will distribute a finite number of global education grants to students who meet, among others, the following qualifications: be a full-time student; have earned 60 undergraduate or 21 graduate credits from CUW; be a citizen or permanent resident of the United States; and participate in the international experience for university credit. Please check with the Office of National & International Study or its web page on CUW web site for complete information and/or an application.

## ACADEMIC POLICIES

### CLASSIFICATION OF STUDENTS

**Full-time:** Enrolled for 12 or more hours      **Part-time:** Enrolled for less than 12 hours

**Degree:** Seeking an Associate in Arts, a Bachelor of Arts, a Bachelor of Science degree, or a Bachelor of Social Work

**Non-Degree:** Not seeking a degree

**Church Vocation Students:** Full-time students who are preparing themselves for one of the church vocations within The Lutheran Church-Missouri Synod and have maintained a grade point average of at least 2.00.

Part-time students are not eligible to participate in intercollegiate competition or to hold any campus office.

A student enrolled in a degree program must matriculate through admissions. Upon his/her acceptance, the University is committed to do all it can to help the student successfully complete his/her chosen program. Accordingly, each degree seeking student is assigned to an advisor.

A non-degree student wishing to change to degree status shall make application to the Vice President of Enrollment Services (cf. Special Admissions.)

Classification is determined by the total number of credits completed including those accepted by Concordia from other college or university and is established as follows:

Freshman	0-29
Sophomore	30-59
Junior	60-89
Senior	90-graduation

### STUDENT COURSE LOAD FOR FULL-TIME STUDENT

	Minimum	Average	Maximum
Regular Semester	12	15	18
Winterim	2	3	4
Summer	3	6	9

### ACADEMIC ADVISING

Upon matriculation to the University, each degree student is assigned a faculty/staff member as his/her personal academic advisor. Advisors are constantly kept informed of changes in the curriculum and thus are in a good position to help their advisees make decisions relating to their academic needs. However, it remains the responsibility of the student to ascertain that he or she is meeting all the requirements of the program and for the degree.

The advisor has both the professional training and responsibility to offer sound advice to his/her advisees. All questions relating to a student's academic program at the University should be directed to their academic advisor. Prior to the assignment, additional information about the academic advisor/advisee responsibilities or advising resources may be found on the CUW website at [www.cuw.edu](http://www.cuw.edu).

## ACADEMIC ETHICS

Mutual respect and concern for one another in the atmosphere of a Christian caring community is the basic principle which should govern the relationship between student and instructor. Faculty are professional in their expectations of academic excellence and students respond with an appropriate level of effort and commitment. Unprofessional conduct and unethical behavioral are serious breaches of the academic contract. The ethics code of the university provides for due process, and grievance procedures are detailed in the Student Handbook.

## GRADING

Formal reports of the student's progress are issued at the close of each semester. At mid-semester, a report of very low grades (D's and F's) is given to the student.

The following grade point systems is used in connection with these grades:

A	— equals 4.00 points per credit	P	— 0.0 points pass in pass-fail course, not computed in grade point average, credits counted.
A-	— equals 3.67 points per credit	NC	— 0.0 points, failure in pass-fail course, not computed in grade point average, no credit earned.
B+	— equals 3.33 points per credit	W	— 0.0 points, withdrawn without penalty, not computed in grade point average. Given for withdrawal previous to withdrawal deadline, and for certain extenuating circumstances thereafter, such as illness.
B	— equals 3.00 points per credit	WF	— 0.0 points, withdrawn with penalty, is computed in grade point average. Given for withdrawal after the withdrawal deadline under unauthorized conditions.
B-	— equals 2.67 points per credit	I	— 0.0 points, incomplete, not computed in grade point average, (see policy on incomplete grades below)
C+	— equals 2.33 points per credit		
C	— equals 2.00 points per credit		
C-	— equals 1.67 points per credit		
D+	— equals 1.33 points per credit		
D	— equals 1.00 points per credit		
D-	— equals .67 points per credit		
F	— equals 0.00 points per credit		

## GRADE CHANGES

Once a course grade has been made available to the student, a change of that grade will be permitted on the following time basis:

- For a course taught in the traditional semester format (Fall or Spring semesters) the grade change is to occur before the end of three calendar weeks into the following semester.
  - For a course taught in the non-traditional format the change is to occur within six calendar weeks.
- The above policy does not apply to grades of Incomplete.

## FINAL EXAM EXEMPTIONS

Each individual instructor may choose to allow certain high-achieving students to exempt from taking the final examination at the end of a regular semester course. For an exemption to be given, the student must be carrying an A for the course. First semester freshmen cannot be exempted. Second semester freshmen and sophomores may be exempted from one exam. Juniors and seniors can be exempted from up to two exams.

## INCOMPLETE GRADES

An incomplete grade given in any term (i.e., first and second semester, Winterim, Summer Session) becomes a failing grade if the work is not completed within three weeks after the end of the final examination period for that term or by the time agreed to between the instructor and student. Requests for extension of time to resolve an I grade will be approved only when the instructor is satisfied that circumstances prompting the request justify waiving this three-week policy. In unusual circumstances, beyond the control of the student and the approval of the instructor, incomplete grades can be held for one semester.

## INDIVIDUAL INSTRUCTION/INDEPENDENT STUDY PROPOSALS

Independent study proposals must be processed 60 days prior to the beginning of the new semester.

## TRANSCRIPTS

An "Official" transcript is one bearing the seal of the University and the signature of the Registrar or his/her representative. Official transcripts are not normally given to students or alumni, but are mailed directly to institutions or persons considering the applicant for admission or for employment.

An "Unofficial" transcript is one given to the student whose credits are listed thereon and is marked "unofficial" or "student copy." Concordia University accepts no responsibility for the accuracy of an unofficial transcript after it has been issued.

Federal regulations require the student's signature before the record can be released.

You can request a transcript by visiting our website: [www.cuw.edu](http://www.cuw.edu)

### CLASS ADDS-DROPS

A student may add a course before no more than 15% of the scheduled class periods have occurred. The table below is a guide for the various courses and the maximum times of meeting after which registrations are not permitted. Consent of the instructor must also be secured.

Course Credit	Value	Class Periods
1/2		1
1		2
2		4
3		6
4		8
5		10

A regular semester class may be dropped without penalty through the end of tenth week of class (for seven week classes - end of the fifth week). Drops require the signature of the advisor. Failure to withdraw from a class will result in a WF grade.

A full-time student may register through the last day of the first full week (5 days) of classes in the semester. The instructor's signature is required after the first week.

### CHANGE OF NAME OR ADDRESS

Students are to promptly notify the Registrar in writing of any change in name or address.

### ACADEMIC HONORS

#### THE VICE PRESIDENT OF ACADEMICS' SCHOLASTIC HONORS LIST

The Vice President of Academics' Scholastic Honors List for the University is composed each semester of those full time student(s) who have a semester grade point average of 3.6 or above.

#### GRADUATION WITH HONORS

A candidate who achieves a cumulative grade point average of 3.90 or better will be graduated **Summa Cum Laude**; one who achieves a cumulative grade point average of 3.80 or better will be graduated **Magna Cum Laude**; and one who achieves a cumulative grade point average of 3.60 or better will be graduated **Cum Laude**.

### AWARDS

Concordia considers it right and proper to recognize through special awards unusual proficiency and performance in a certain area of learning as well as in worthwhile and purposeful co-curricular activity. Many such awards are given annually to students who have demonstrated exceptional achievement or who have made unusual contributions. From time to time, friends of Concordia have established such awards and have usually stipulated conditions under which the respective award should be given. Since in these instances the recognition aspect is more important than the financial element, Concordia has listed these as awards rather than scholarships. Such awards include:

Walter W. Stuenkel Award	American Bicentennial Award in Business Administration
E.R. Brann Citizenship Award	Nightingale Nursing Award
Science Awards	Charles W. Finke Health and Human Performance Award
William Schickard Award in Computer Science	Marsha Konz Student Educator Award
Moeller Award in English, German, Greek, Hebrew, Latin, and Spanish	Marsha Konz Graduate Educator Award
Religion Award	Zondervan Publishing House Award in Greek
Northup-Bartelt Memorial Music Award	Student Life Awards
Wall Street Journal Award	Charles W. Finke Physical Education Award

### ACADEMIC STANDING

A student is considered in good standing if a cumulative grade point average of 2.00 is maintained. If the cumulative grade point average falls below a 2.00, the good standing becomes jeopardized and the student will be placed on academic probation.

The status of the student will be evaluated at the end of the semester. If the semester grade point average during the next semester is raised to a 2.00 but the cumulative grade point average remains below a 2.00 then academic probation remains. However, if the semester grade point average is below a 2.00 at anytime while on probation, the student will be academically dismissed. The student must use the appeals procedure to present extenuating circumstances which might lead to readmission.

A student who has been suspended for poor academic achievement is no longer considered in good standing.

### APPEALS PROCESS

A student who does not maintain a cumulative grade point average of at least 2.0 must make an appeal to the Appeals Committee in order to remain for another semester. The Appeals Committee is composed of: The Vice President of Academics or his designee, the Director of the Learning Center, the Registrar, a representative from Student Life, the student's advisor, and one of the instructors from the previous semester as appointed by the Vice President of Academics.

The student must meet with the Committee on the appointed day and must bring along a letter explaining why an adequate GPA has not been maintained and what specific steps are planned to improve the low GPA standing.

Immediately upon conclusion of the hearing, the Appeals Committee will reach a decision and inform the student of the resulting action.

If a student is not readmitted, he must sit out for at least one semester, after which time they can re-apply for admission. It would be helpful for the student to take courses elsewhere to indicate their ability to succeed at college level work.

## GRADUATION

Concordia University confers the degree of Bachelor of Arts, Bachelor of Science or Bachelor of Social Work on a student of good character who must have met all the requirements listed here:

1. accumulated a cumulative grade point average of 2.00 or better for all credited work completed at Concordia.
2. earned a minimum of 36 semester credits of academic work on campus at least 12 of which should be in the major and have spent the last two semesters in residence including the one immediately prior to graduation. Residence is defined as registration for course work.
3. filed application for candidacy before registering for the final semester.
4. met all financial obligations to the University
5. every candidate is expected to attend graduation exercises. Requests for excuse in extenuating circumstances should be directed to the Registrar.

Concordia University confers the degree of Associate in Arts on a student of good character who has met all the requirements listed here:

1. a cumulative grade point average of (2.00) or better for all credited work completed at Concordia University.
2. completed all necessary degree requirements for the program in which the student is enrolled.
3. spent at least two semesters in residence, including the one immediately prior to graduation. Evening division degree candidates need not meet residency requirements, but instead must complete a minimum of 18 semester hours of academic work on campus.
4. filed application for candidacy before registering for the final semester.
5. met all financial obligations to the University.
6. every candidate is expected to attend graduation exercises. Requests for excuse in extenuating circumstances should be directed to the Registrar.

Students must be enrolled in sufficient course(s) during their final semester at CUW to anticipate receiving their degree.

## WITHDRAWAL FROM THE UNIVERSITY

Students who wish to withdraw from the University during a term must notify the Director of Academic Advising and Retention Services. If withdrawal is authorized, the student will receive the notation "W" on their permanent academic record for each course in which they are in good academic standing; for each course, in which the student is doing failing work, they receive the notation "WF."

In the event that a student is seriously injured/ill, receives an official leave of absence, or cannot continue for any acceptable reason, the student will receive a "W" in all registered courses.

A student who discontinues attending classes without official permission to withdraw will receive a grade of "WF" for all registered courses.

All students who are dismissed for conduct/behavioral reasons are to leave the campus and remain away until permission to return is granted. Any deviation from this policy may result in forfeiting the possibility of readmission. Requests for exceptions are to be addressed to the Vice President of Student Life.

Students dismissed for academic reasons are able to be on campus visiting unless otherwise noted in their dismissal. Students wishing to return to the University must wait at least one semester before re-applying for admission through the Office of the Vice President of Enrollment Services.

## WINTERIM

Winterim offers students the opportunity either to explore topics not in their regular course of studies or to take courses that are part of their Core, major, or minor programs. Students pay a reduced per credit tuition for these three week January courses. 2-3 credits are typical; 4 is maximum.

# ACADEMIC PROGRAMS

## ACCREDITATION

Concordia University is accredited by the Higher Learning Commission, and a member of the North Central Association of Colleges and Schools.

The Higher Learning Commission  
30 North La Salle Street, Suite 2400, Chicago, IL 60602  
(312) 263-0456, [www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org)

The elementary and secondary teacher education programs are approved by the Wisconsin State Department of Public Instruction. Graduates may be appropriately placed in private or public institutions.

The nursing program is approved by the Wisconsin State Board of Nursing and the National League for Nursing.

B.A. — State of Missouri, Louisiana, and Indiana Accreditation

This institution is regulated by:

The Indiana Commission on Proprietary Education  
 302 West Washington Street, Room 201, Indianapolis, IN 46204  
 In-State Toll Free Number 1-800-227-5695 or (317) 232-1320

The following agencies have accredited various programs of Concordia University Wisconsin:

- Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (Graduate Occupational Therapy)
- Commission on Accreditation of Allied Health Education Programs (Undergraduate Medical Assisting)
- Commission on Accreditation of Physical Therapy Education (Graduate Physical Therapy)
- Commission on Collegiate Nursing Education (Undergraduate & Graduate Nursing)
- Council on Social Work Accreditation (Undergraduate Social Work)
- Indiana Commission on Proprietary Education (Fort Wayne and Indianapolis Centers)
- Joint Review Committee on Educational Programs in Athletic Training and the commission on Accreditation of Allied Health Education Programs (Athletic Training Education Program)
- Joint Review Committee on Education in Radiologic Technology (Undergraduate Radiologic Technology)
- Louisiana State Board of Regents (New Orleans Center)
- National League for Nursing Accrediting Commission (Undergraduate & Graduate Nursing)
- Wisconsin Department of Public Instruction (Undergraduate & Graduate Teacher Education)
- Wisconsin State Board of Nursing (Undergraduate Nursing)

**THE BACCALAUREATE DEGREE**

The curriculum design for the baccalaureate degree normally consists of four parts:

1. The core curriculum - 48 credits
2. A major - minimum of 30 credits

Accounting	Economics	International Business	Photography
Actuarial Science	Elementary Education	Justice & Public Policy	Political Science
Art	English	Lay Ministry	Pre-Seminary Studies
Art Education	Environmental Studies	Management	Physical Education
Athletic Training	Exercise Physiology	Marketing	Psychology
Biblical Languages	Finance	Mass Communication	Public Relations
Biology	General Business	Mathematics	Radiologic Technology
Biomedical Sciences	German	Missions	Rehabilitative Science
Business Communication	Graphic Design	Multimedia Communication	Secondary Education
Business Education K-12	History	Music	Social Work
Computer Information Sciences	Horticulture	Music Education	Spanish
Computer Science	Humanities	Music Therapy	Speech Communication
Diagnostic Medical Sonography	Illustration	Natural Science	Theological Languages
Early Childhood Education	Individualized Information Technology	Nursing	Theology
	Interior Design	Parish Music	
		Philosophy	

Refer to the Table of Contents on page 1 for more information on these majors and minors.

3. A minor - minimum of 18 credits (21 cr. minimum for Education majors)

Accounting	Computer Science	Individualized	Political Science
Adaptive Education	Early Childhood Education	Lay Ministry	Public Relations
Art	Economics	Legal Studies	Science
Athletic Coaching	Educational Studies	Marketing	Science Education
Biology	English	Mass Communication	Social Science
Business	English as a Second Language	Mathematics	Social Welfare
Business Communication	Environmental Studies	Missions	Spanish
Business Education	Finance	Multimedia Communication	Theological Languages
Chemistry	German	Music	Theology
Christian Thought	Health Education	Parish Music	Women's Studies
Computer Information Sciences	History	Philosophy	Youth Ministry
	Humanities	Psychology	

4. Electives to reach a minimum total of 126 credit hours, which is the required minimum to receive a bachelors degree from Concordia University Wisconsin.



**THE CORE CURRICULUM**

**The Common Core** [All students take these particular courses, for a total of 15 credits]

Writing	(3 credits)	Civilization & Worldviews: History	(3 credits)
Bible Content	(3 credits)	Civilization & Worldviews: Literature	(3 credits)
Christian Doctrine	(3 credits)		

**The Narrative Core** [In each category, students choose from several courses which satisfy a narrative that specifies a particular competence, for a total of 12 credits]

Communications (Speech, Interpersonal)	(3 credits)	Citizenship (Pol. Sci., Economics)	(3 credits)
Culture	(3 credits)	Philosophical Foundations	(3 credits)

**The Distributive Core** [Students choose from a range of courses, in light of their interests and program requirements, for a total of 21 credits]

Mathematics (3 credits)	Physical Education (2 credits)	Social Science (3 credits)
Creative Arts (3 credits)	Lab Science (4 credits)	Theology Elective (3 credits)
Language (3 credits)		

**ASSOCIATE IN ARTS DEGREE****I. CORE CURRICULUM 36 crs.**

- Liberal Arts Preparation — 3
- Theology — 6
- Communications — 6
  - Introduction to Writing — 3
  - Public Speaking — 3
- Social Science — 3
  - General Psychology or Introduction to Sociology or Interpersonal Communication — 3
- Humanities — 6 (Choose Two Areas)
  - History or Literature or Creative Arts Elective — 3

- Cross Culture Course — 3
  - Cultural Geography, Anthropology, Non-Western History, OR Foreign Language
- Science elective (with Lab) — 4
- Mathematics/Computer Science elective — 3
- Physical Education — 2
  - Introduction to Lifetime Fitness — 1
  - Physical Education Activity elective — 1

**II. PROFESSIONAL COLLATERAL Minimum 27 crs.****ADVANCED TRANSFER CORE**

- All students holding an accredited Associate Degree will be granted Advanced Transfer status.
- Students presenting at least 63 acceptable transfer credits from an accredited college (but not holding an associate degree) will be granted Advanced Transfer status.

**Transfer Core Requirements:**

- Social Sciences — 9 Credits  
(History, political science, sociology, psychology, anthropology, cultural geography, cross-cultural studies, economics)
- Humanities and The Arts — 6 Credits  
(Literature, music, art, drama, dance)
- Mathematics and Communication — 6 Credits

Writing Course (Speech, foreign languages, linguistics, computer languages, sign languages, mathematics)

Theology — 6 Credits

Science — 4 Credits  
(Biology, chemistry, geology, geography, astronomy, physics or physical geography with a lab)

**Total Transfer Core Requirement — 31 Credits**

**RESERVE OFFICER TRAINING CORPS****Air Force Reserve Officers Training Corps**

Concordia University students have the opportunity to fully participate in the Air Force Reserve Officers Training Corps program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through the program, Concordia offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers four-, three-, two-, and one-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course the professional officer course, in addition to a four-week summer field training between their second and third years in the program. Two-year students complete only the professional officer course. One-year students complete a seven-week field training session.

AFROTC College Scholarship and Scholarship Actions Programs: These programs provide scholarships to selected students participating in AFROTC. While participating in AFROTC, students receive \$250-400 per month along with paid tuition, fees, and a fixed textbook reimbursement.

For more information, contact the Department of Aerospace Studies at Marquette University (414) 288-7882.

### Army Reserve Officer Training Course

Concordia University students have the opportunity to fully participate in the Army Reserve Officer Training Course (AROTC) program. Students in the program attend AROTC courses at Marquette University. This program prepares Concordia University students for commissions in the U.S. Army, Army National Guard, or the U.S. Army Reserve.

There are two program options a four- or two-year program. The four-year program is divided into two phases: the basic course (taken during the freshman and sophomore years) and the advanced course (taken during the junior and senior years). The two-year program is designed for students at four-year institutions who did not take AROTC during the first two years of college, students entering a postgraduate course of study, or students who have prior military service. Students enrolling in the advanced course who have not taken the basic course will begin their training with a five-week paid summer session at Fort Knox called the Leader's Training Course or a one-week program held at Marquette called Accelerated Cadet Commissioning Training.

The Army offers a number of scholarship opportunities to Concordia University students enrolled in the ROTC program. There are two-year, three-year, and four-year active duty scholarships as well as two-year U.S. Army Reserve and National Guard scholarships available. These scholarships are awarded on a competitive basis by the Department of Military Science at Marquette University and can be applied to tuition expenses at Concordia University. In addition to the scholarships, all contracted students in the advanced course receive a \$250-400 monthly stipend.

Prospective students interested in the Army ROTC program are encouraged to visit the Army ROTC website [www.armyrotc.com](http://www.armyrotc.com), the Marquette Army ROTC website [www.mu.edu/rotc/army/html](http://www.mu.edu/rotc/army/html), or contact our Enrollment and Scholarship Officer at Marquette University (414) 288-2046.

### COOPERATIVE PROGRAMS

Concordia University Wisconsin enables students to enrich their academic preparation by taking courses at other higher education institutions with which CUW has a written agreement. Consult the Registrar's Office for eligibility and guidelines.

### PROGRAM CHANGES

Requirements are subject to change in programs, majors or minors.

## SCHOOL OF ARTS & SCIENCES

### ART MAJOR

**61 crs.**

The Art Major consists of 61 credit hours of course work including a wide variety of studio courses, and courses in art history, aesthetics, and portfolio preparation. Art majors experiment with a variety of materials and techniques to encourage artistic and cognitive growth while mastering media as means of personal expression. In addition to the 48-credit Liberal Arts core requirements and required courses listed below, all art majors must complete requirements for a Minor. A Business or Marketing minor is strongly recommended to help students develop the skills they will need to channel their talents into a successful career. Program requirements include purchase of a Mac laptop (available at reduced prices via [my.cuw.edu](http://my.cuw.edu)).

#### Required Courses — 46 crs.

GD 100 Digital Design I — 3 crs.

ART 110/111 Design Fundamentals **OR**

2D Composition — 3 crs.

ART 131 Photography I — 3 crs.

ART 145 Drawing for Art Majors — 3 crs.

ART 210 3D Design — 3 crs.

ART 230 Printmaking I — 3 crs.

ART 245 Drawing II — 3 crs.

ART 258 Ceramics I — 3 crs.

ART 265 Acrylic Painting — 3 crs.

ART 275 Sculpture I — 3 crs.

ART 285 Art History I — 3 crs.

ART 286 Art History II — 3 crs.

ART 290-295 Applied Design — 3 crs.

ART 365 Watercolor Painting — 3 crs.

PHIL 381 Aesthetics — 3 crs.

ART 450 Senior Portfolio/Show — 1 cr.

#### Concentration — 6 crs.

ART 401/402 Independent studio work in area of concentration

#### Electives — 9 crs.

*Choose 6 credits from the following:*

ART 222 Outdoor Drawing & Painting — 3 crs.

ART 231 Photography II — 3 crs.

ART 276 Sculpture II — 3 crs.

ART 287 History of Architecture — 3 crs.

ART 290-295 Applied Design — 3 crs.

ART 430 Art Internship

**ART MINOR (non-licensable)****22 crs.**

The Art Minor consists of 22 credit hours of course work and is chosen by majors from many fields. An art minor is particularly of value to majors in Elementary Education, Early Childhood Education, or Communications. Students pursuing the Art Minor take a variety of studio courses and complete work in art history. In addition to the 48-credit Liberal Arts core requirements, art minors complete the following courses.

**Required Courses — 18 crs.**

ART 110 Design Fundamentals — 3 crs.  
 ART 145 Drawing for Art Majors — 3 crs.  
 ART 151 Introduction to Studio Art — 3 crs.

ART 210 3D Design — 3 crs.  
 ART 285 or 286 Art History I or II — 3 crs.  
 ART 290-295 Applied Design — 3 crs.  
 ART 450 Senior Show — 1 cr.

**ART EDUCATION MAJOR****101-107 crs.**

The Art Education Major consists of 101-107 credit hours of course work, dependent upon whether the student chooses a public school or Lutheran education focus. In both cases coursework blends studio and education courses to fully prepare students for a rewarding career in art education. Upon successful completion of all coursework, including a semester of student teaching, art education majors earn full licensure by the State of Wisconsin to teach art at the elementary and secondary levels (K-12). Program requirements include purchase of a Mac laptop (available at reduced prices via my.cuw.edu). In addition to requirements for the 52-credit K-12 Education core, art education majors complete the following required coursework in the areas of art, education, and art education.

**Required Art Department Courses — 42 crs.**

ART 145 Drawing I (for Art Majors) — 3 crs.  
 ART 110/111 Design Fundamentals **OR**  
 2D Composition — 3 crs.  
 ART 131 Photography 1 — 3 crs.  
 GD 100 Digital Design 1 (**OR** GD 110  
 Graphic Design I) — 3 crs.  
 ART 210 3D Design — 3 crs.  
 ART 230 Printmaking 1 — 3 crs.  
 ART 245 Drawing II — 3 crs.  
 ART 258 Ceramics 1 — 3 crs.  
 ART 265 Acrylic Painting — 3 crs.  
 ART 275 Sculpture 1 — 3 crs.  
 ART 285 Art History I — 3 crs.  
 ART 286 Art History II — 3 crs.  
 ART 290-295 Applied Design — 3 crs.  
 ART 381 Aesthetics — 3 crs.

AE 235 Elementary Art Education Theory & Practice — 3 crs.  
 AE 237 Strategies for Mainstreaming in Art Education — 1 crs.  
 AE 335 Secondary Art Education Theory & Practice — 3 crs.  
 AE 340 Curriculum Design for Art Education — 3 crs.  
 AE 342 Art Education: Studio Practices I — 3 crs.  
 AE 343 Art Education: Studio Practices II — 3 crs.  
 PSY 221 Child Development — 3 crs.  
 ED 230 Nature of the Exceptional Child — 3 crs.  
 ED 350 Teaching in the Middle School — 3 crs.  
 ED 370 Analysis of Instruction — 3 crs.  
 ED 383 Communication Arts in the Content Areas — 3 crs.  
 ED 409 Instructional Technologies — 1 crs.  
 ED 411 Professional Ethics — 3 crs.  
 ED 414 Portfolio Completion — 1 crs.

**Field Experiences — 15 crs.**

ED 100 (211) Clinical I: General — 1 crs.  
 ED 100 (212) Clinical [I]: Multicultural — 1 crs.  
 ED 100 (213) Clinical III: Special Education — 1 crs.  
 ED 433 Student Teaching Placement #1 — 6 crs.  
 ED 434 Student Teaching Placement #2 — 6 crs.

**Electives/Focus — 6 crs.**

Choose 6 credits from studio art offerings

**Art Education & K12 Education****Requirements — 38 crs.**

AE 102 Foundations of Art Education — 3 crs.  
 ED 203 Educational Technologies — 1 crs.

**Lutheran Church Missouri Synod (LCMS) Education — 6 crs.**

REL 203 New Testament — 3 crs.  
 REL 404 Lutheran Confessions — 3 crs.  
 Note: REL 203 may also be counted within Core Requirements

**GRAPHIC DESIGN MAJOR****64 crs.**

The Graphic Design Major consists of 64 credit hours of course work, 18 of which are completed through a cooperative program with the Milwaukee Institute of Art & Design (MIAD). MIAD is just a 25-minute drive from our Mequon Campus and offers the very latest in graphic design technologies. A student graphic design lab is available on the Concordia University campus for students completing course work at MIAD. In addition to the 48-credit Liberal Arts core requirements and required courses listed below, all graphic design majors must complete requirements for a Minor. A Business or Marketing minor is strongly recommended to help students develop the skills they will need to channel their talents into a successful career. Program requirements include purchase of a Mac laptop (available at reduced prices via my.cuw.edu). *For specific information about MIAD courses please visit the MIAD website at [www.miad.edu](http://www.miad.edu).*

**Required Courses (Concordia Campus) — 43 crs.**

GD 110 Graphic Design I — 3 crs.  
 GD 111 Graphic Design II — 3 crs.  
 ART 141 or 145 Drawing — 3 crs.  
 ART 111 2D Composition **OR**  
 ART 110 Design Fundamentals — 3 crs.  
 ART 131 Photography I — 3 crs.

ART 210 3D Design — 3 crs.  
 ART 285 Art History I — 3 crs.  
 ART 286 Art History II — 3 crs.  
 ART 288 History of Design — 3 crs.  
 GD 360 Web Design I — 3 crs.  
 GD 361 Web Design II — 3 crs.

GD 370 Communication Design:  
Workflow & Production — 3 crs.  
GD 460 Graphic Outlook I — 3 crs.  
GD 461 Graphic Outlook II  
(or ART 430 Internship) — 3 crs.  
ART 450 Senior Portfolio/Show — 1 crs.

**Electives (Concordia Campus) — 3 crs.**  
Any ART elective — 3 crs.

**Required Courses (MIAD Campus) — 18 crs.**  
F111 Visual Dynamics 2 (Color, Light & Time) — 3 crs.  
DS 200 Communication Design I — 3 crs.  
DS 201 Communication Design II — 3 crs.  
DS 202 Typography I — 3 crs.  
DS 203 Typography II — 3 crs.  
MIAD Elective (Graphic Design) — 3 crs.

## ILLUSTRATION MAJOR

**61 crs.**

The Illustration Major consists of 61 credit hours of course work, 18 of which are completed through a cooperative program with the Milwaukee Institute of Art & Design (MIAD). MIAD is just a 15-minute drive from our Mequon Campus and offers the very latest in illustration concepts and technologies. Successful candidates for the Illustration Major should have exceptional drawing ability. In addition to the 48-credit Liberal Arts core and required courses listed below, all Illustration Majors must complete requirements for a Minor. A Business or Marketing Minor is strongly recommended to help students develop the skills they will need to channel their talents into a successful career. Program requirements include purchase of a Mac laptop (available at reduced prices via my.cuw.edu). *For specific information about MIAD courses please visit the MIAD website at [www.miad.edu](http://www.miad.edu).*

**Required Courses (Concordia Campus) — 37 crs.**

ART 111 2D Composition **OR**  
ART 110 Design Fundamentals — 3 crs.  
ART 131 Photography I — 3 crs.  
ART 145 Drawing for Art Majors — 3 crs.  
GD 110 Graphic Design I — 3 crs.  
GD 111 Graphic Design II — 3 crs.  
ART 210 3D Design — 3 crs.  
ART 230 Printmaking I — 3 crs.  
ART 245 Drawing II — 3 crs.  
ART 265 Acrylic Painting — 3 crs.  
ART 285 Art History I — 3 crs.  
ART 286 Art History II — 3 crs.  
ART 345 Drawing III — 3 crs.  
ART 451 Senior Show/Portfolio — 1 crs.

**Electives (Concordia Campus) — 6 crs.**

ART 401 Independent Studio Work — 3 crs.  
ART 402 Independent Studio Work — 3 crs.  
*Any other studio art course as approved by advisor*

**Required Courses (MIAD Campus) — 18 crs.**

DS 210 Illustration I — 3 crs.  
DS 211 Illustration II — 3 crs.  
DS 212/213 Illustration Media — 3 crs.  
DS 214 Figure Drawing for Illustrators — 3 crs.  
DS 215 Advanced Figure Drawing  
for Illustrators — 3 crs.  
AH 213 History of Modern &  
Contemporary Design — 3 crs.

## INTERIOR DESIGN MAJOR

The Interior Design Major consists of 52 credit hours of course work completed through a cooperative program with Milwaukee Area Technical College (MATC). MATC-Mequon Campus is just a 5-minute drive from Concordia and offers two unique choices to prepare students for an exciting career designing residential and commercial interiors; Interior Design Foundations and Interior Design Specializations. In addition to the 48-credit Liberal Arts core requirements (completed on the Concordia Campus) and required courses listed below, all interior design majors must complete requirements for a Minor. To develop skills necessary for the most successful career, an Art or Business minor is strongly recommended. Students selecting the Business Minor should work closely with their advisor regarding appropriate core source choices. *For specific information about MATC courses, please visit the MATC website at <http://oncampus.matc.edu/catalog/index1.htm>.*

**Required Courses (MATC Campus) — 26 crs.**

*Semester order for full-time students*  
INDSGN 120 Fundamentals of Interior Design — 3 crs.  
INDSGN 131 The Furniture Industry — 2 crs.  
INDSGN 151 Building Construction — 2 crs.  
INDSGN 123 Applied Interior Design — 2 crs.  
INDSGN 125 Interior Design Drafting — 3 crs.  
INDSGN 139 Space Planning — 3 crs.  
INDSGN 153 Advanced Computer Applications — 3 crs.  
INDSGN 150 Commercial Planning — 3 crs.  
INDSGN 156 Computer Applications for Interior Design — 3 crs.  
INDSGN 163 Field Experience for Interior Design — 3 crs.

**Students Select Either Track 1 or Track 2 — 8 crs.**

*Track 1*  
INDSGN 158 Commercial Codes — 2 crs.  
INDSGN 161 Business Practices and Occupations — 2 crs.  
INDSGN 121 Color Theory — 2 crs.  
INDSGN 140 Kitchen and Bathroom Planning — 2 crs.  
*Track 2*  
INDSGN 148 Contract and Facilities Planning — 2 crs.  
INDSGN 149 Health Care Finishes and Codes — 2 crs.  
INDSGN 146 Hospitality Design — 2 crs.  
INDSGN 147 Facility Planning and Procedures — 2 crs.

**Technical Support Courses (MATC Campus) — 12 crs.**

INDSGN 145 Applied Textiles for Interiors and Windows — 2 crs.  
 INDSGN 157 Introductory Design Studio — 2 crs.  
 INDSGN 129 Interior Lighting — 2 crs.  
 INDSGN 130 Furniture History — 2 crs.  
 INDSGN 155 Interior Design Sales Techniques — 2 crs.

INDSGN 162 Interior Design Seminar — 2 crs.

**Electives (MATC Campus) — 6 crs.**

*Chooses 6 credits from the following:*  
 INDSGN 152 Interior Design Overview — 3 crs.  
 INDSGN 153 Interior Design Technology — 3 crs.

**PHOTOGRAPHY MAJOR****69 crs.**

The Photography Major consists of 52 credit hours of course work, 18 of which are completed through a cooperative program with the Milwaukee Institute of Art & Design (MIAD). MIAD is just a 15-minute drive from our Mequon Campus and offers the very latest in photographic concepts and technologies. Photography students have access to darkroom facilities on the Concordia campus and MIAD campus. In addition to the 48-credit Liberal Arts core and required courses listed below, all photography majors must complete requirements for a Minor (18-21 credits). To help students develop vital skills for a successful career in photography, recommended minors are Multimedia, Marketing or Business. Program requirements include purchase of a Mac laptop (available at reduced prices via [my.cuw.edu](http://my.cuw.edu)). *For specific information about MIAD courses please visit the MIAD website at [www.miad.edu](http://www.miad.edu).*

**Required Courses (Concordia Campus) — 31 crs.**

ART 111 2D Composition **OR**  
 ART 110 Design Fundamentals — 3 crs.  
 ART 131 Photography I — 3 crs.  
 GD 101 Graphic Design II — 3 crs.  
 ART 230 Printmaking I — 3 crs.  
 ART 231 Photography II — 3 crs.  
 ART 285 Art History I — 3 crs.  
 ART 286 Art History II — 3 crs.  
 ART 383 History of Photography — 3 crs.  
 ART 401/402 Independent Work in Photography — 6 crs.  
 ART 450 Senior Portfolio/Show — 1 crs.

**Electives (Concordia Campus) — 3 crs.**

*Choose 3 credits from the following:*  
 COMM 329 History of Film — 3 crs.  
 ART 430 Field Study/Internship — 3 crs.

**Required Courses (MIAD Campus) — 18 crs.**

FA 290 Lighting — 3 crs.  
 FA 291 Printing Processes — 3 crs.  
 FA 293 Photography Electives — 3 crs.  
 FA 382 Color Photography — 3 crs.  
 FA 390 Photographic Problems — 3 crs.  
 FA 391 Contemporary Photographic Issues — 3 crs.

**ATHLETIC COACHING MINOR****26-27 crs.**

HHP 100 Introduction to Lifetime Fitness — Core  
 BIO 270 Anatomy & Physiology I with Lab — 4  
 HHP 209 First Aid and CPR — 2  
 HHP 272/273 Introduction to Athletic Training with Lab — 3  
 HHP 275 Administration and Organization of Physical Education and Athletics — 3  
 HHP 280 Psychology of Sport — 3  
 HHP 371 Exercise Physiology — 3  
 HHP 373 Motor Development — 3  
 HHP 490 Coaching Practicum — 2-3

**Choose two of the following:**

Coaching Theory Electives (2 credits each) 4 crs.  
 HHP 281 Theory & Techniques of Coaching Softball  
 HHP 282 Theory & Techniques of Coaching Basketball  
 HHP 284 Theory & Techniques of Coaching Football  
 HHP 286 Theory & Techniques of Coaching Track & Field  
 HHP 287 Theory & Techniques of Coaching Soccer  
 HHP 288 Theory & Techniques of Coaching Volleyball  
 HHP 290 Theory & Techniques of Coaching Wrestling  
 HHP 375 Biomechanics

Human Anatomy and Physiology I & Lab must be taken to meet core requirements for Natural Science.

**BIBLICAL LANGUAGES FOR TRANSLATION AND MISSIONS MAJOR****33 crs.**

**Core:** Courses taken as part of the core curriculum must include the following:

Bible Content:	REL 201 Old Testament	Culture & Language:	GRK 201 Greek I
Christian Doctrine:	REL 204 Biblical Theology	Language & Culture:	GRK 202 Greek II
Theology Elective:	REL 210 The Great Commission		

**Major: 30 crs.**

ANTH 201 Cultural Anthropology — 3 crs.	HEB 302 Hebrew II — 3 crs.
COMM 460 Cross Cultural Communication — 3 crs.	HEB 401 Hebrew III — 3 crs.
GRK 303 Greek III — 3 crs.	HEB 402 Hebrew IV — 3 crs.
GRK 304 Greek IV — 3 crs.	REL 203 New Testament — 3 crs.
HEB 301 Hebrew I — 3 crs.	REL 316 Introduction to World Missions — 3 crs.



## DEPARTMENT OF NATURAL SCIENCES

### BIOLOGY MAJOR

56 crs.

The biology major is expected to take CHEM 210 as the natural science requirement, MATH 205 as the mathematics requirement, and PHIL 240, PHIL 350, or SCI 303 as the philosophical foundation requirement in the core. It is recommended that PSY 101 be taken to fulfill the social science and BIO 367 to fulfill the culture requirement in the core. In addition, the biology major must take the following:

BIO 140 General Biology — 4 crs. **OR**  
 BIO 150 Functional Human Biology I — 4 crs. **OR**  
 BIO 280 Functional Anatomy & Physiology I — 4 crs.  
 BIO 240 Zoology — 4 crs.  
 BIO 244 Botany — 4 crs.  
 BIO 260 Biology of Microorganisms — 4 crs.  
 BIO 348 Genetics — 4 crs.  
 BIO 490 Seminar — 2 cr. (1 cr. per semester)  
 CHEM 210 Chemistry I — 4 crs. (taken in core)  
 CHEM 213 Chemistry II — 4 crs.  
 CHEM 240 Organic Chemistry I — 4 crs.  
 CHEM 242 Organic Chemistry II — 4 crs.  
 PHYS 151 Physics I — 4 crs.  
 PHYS 152 Physics II — 4 crs.

BIO 282 Functional Anatomy & Physiology II — 4 crs.  
 BIO 285 Pathophysiology — 3 crs.  
 BIO 321 Cell Biology — 3 crs.  
 BIO 367 Ecology of the Tropics — 3 crs.  
 BIO 368 Tropical Ecology Lab—1 cr.  
 BIO 370 Ornithology — 4 crs.  
 BIO 381 Histology — 3 crs.  
 BIO 385 Comp. Anatomy — 3 crs.  
 BIO 399 Biology Internship — 1-4 crs.  
 BIO 410 Ecology — 4 crs.  
 BIO 417 Plant Anatomy — 4 crs.  
 BIO 425/CHEM 425 Biochemistry — 4 crs.  
 BIO 430 Pharmacology — 3 crs.  
 BIO 435 Developmental Biology — 3 crs.  
 BIO 444 Systematics — 4 crs.  
 BIO 470 Human Physiology — 4 crs.  
 CHEM 361 Environmental Chemistry and Toxicology — 3 crs.

**Electives—Choose a minimum of 14 crs. from the following:**

BIO 142 General Biology II — 4 crs. **OR**  
 BIO 152 Functional Human Biology II—4 crs.  
 BIO 256 Environmental Science — 4 crs.

### BIOLOGY MINOR

24 crs.

A biology minor is offered to those students who want a more detailed knowledge of living organisms/systems and how they affect the world in which we live. The biology minor is expected to have taken CHEM 205 Elements of General and Biological Chemistry for fulfillment of the core science requirements. In addition, the biology minor must take the following 24 hours:

BIO 140 Gen Bio I or SCI 150 Life Sciences — 4 crs.  
 BIO 146 Essentials of Anatomy and Physiology — 4 crs.  
 BIO 240 Zoology — 4 crs.

BIO 244 Botany — 4 crs.  
 BIO 256 Environmental Science **OR**  
 BIO 410 Ecology — 4 crs.  
 BIO 348 Genetics — 4 crs.

### BIOMEDICAL SCIENCES MAJOR

61 crs.

The Biomedical Sciences Major, which combines human health sciences with Concordia University Wisconsin's distinctive core curriculum with courses in theology, humanities and social sciences, should provide students with the intellectual, scientific, and ethical tools to succeed in advanced studies in the health sciences or proceed directly into the growing field of biotechnology and drug development. The biomedical sciences major is expected to take CHEM 210 as the natural science requirement, MATH 205 as the mathematics requirement, PSY 101 as the social science requirement, and PHIL 350 as the philosophical foundation requirement in the core. BIO 290 may be taken to fulfill the culture requirement in the core curriculum. In addition, the biomedical sciences major must take the following:

**Physical Sciences: 24 credits**

CHEM 213 Inorganic Chemistry II — 4 crs.  
 CHEM 240 Organic Chemistry I — 4 crs.  
 CHEM 242 Organic Chemistry II — 4 crs.  
 CHEM 425 Biochemistry — 4 crs.  
 PHYS 151 Physics I — 4 crs.  
 PHYS 152 Physics II — 4 crs.

**Biological Sciences: 30 credits**

BIO 260 Biology of Microorganisms — 4 crs.  
 BIO 280 Anatomy and Physiology I — 4 crs.  
 BIO 282 Anatomy and Physiology II — 4 crs.  
 BIO 285 Pathophysiology — 3 crs.  
 BIO 321 Cell Biology — 3 crs.  
 BIO 348 Genetics — 4 crs.  
 BIO 351 Immunology — 3 crs.  
 BIO 430 Pharmacology — 3 crs.  
 BIO 490 Senior Seminar — 2 crs.

**Electives—Choose a minimum of 7 crs. from the following:**

BIO 290 Early History of Microbiology — 3 crs.  
 BIO 381 Histology — 3 crs.  
 BIO 385 Comparative Anatomy — 3 crs.  
 BIO 399 Biology Internship — 3 crs.  
 BIO 435 Developmental Biology — 3 crs.  
 BIO 470 Human Physiology — 4 crs.  
 BIO 536 Advanced Pathophysiology — 3 crs.  
 BIO 550 Human Anatomy — 6 crs.  
 BIO 560 Neuroscience — 3 crs.  
 CHEM 361 Environmental Chemistry and Toxicology — 3 crs.  
 HHP 471 Advanced Exercise Physiology — 4 crs.  
 SCI 303 Cosmogony — 3 crs.

**Other Math Courses: (strongly recommended)**

MATH 201 Calculus I — 4 crs.  
 MATH 202 Calculus II — 4 crs.  
 MATH 305 Statistics II — 3 crs.



**CHEMISTRY MINOR****22-23 crs.**

A chemistry minor is offered to students in a secondary education curriculum, but may be of interest to other students who desire a more in-depth understanding of the importance of chemistry in today's technological world. The secondary education chemistry minor is expected to take MATH 121 as the mathematics requirement in the core curriculum. Other students are expected to have a mastery of the concepts covered in MATH 121. In addition, the chemistry minor must take the following 16 hours:

CHEM 210 Inorganic Chemistry I — 4 crs.  
 CHEM 213 Inorganic Chemistry II — 4 crs.  
 CHEM 240 Organic Chemistry I — 4 crs.

CHEM 242 Organic Chemistry II — 4 crs.  
 CHEM 361 Environmental Chemistry and Toxicology — 3 crs.  
 CHEM 425 Biochemistry — 4 crs.

**ENVIRONMENTAL SCIENCE MINOR****23 - 24 crs.**

BIO 140 General Biology I or SCI 150 — 4 crs.  
 BIO 256 Environmental Science — 4 crs.  
 BIO 410 Ecology — 4 crs.

CHEM 205 General Chemistry — 4 crs.  
 SCI 135 Earth Science — 4 crs.  
 Elective subject to Science Faculty approval — 3-4crs.

**ENVIRONMENTAL AND POLLUTION CONTROL TECHNOLOGY MAJOR****50 crs.**

The Environmental and Pollution Control Technology Major consists of 50 credit hours of course work completed through a cooperative program with Milwaukee Area Technical College (MATC). MATC-Mequon Campus is just a 5-minute drive from Concordia. In addition to the CUW Liberal Arts core requirements and required courses listed below, all environmental and pollution control technology majors must complete requirements for a CUW Minor. Required core courses may be taken at either MATC or CUW.

For specific information about MATC courses and degree requirements, please visit the MATC website at <http://oncampus.matc.edu/catalog/index1.htm>.

ENVHEL 101 Introduction to Environmental Health — 2 crs.  
 ENVHEL 102 Environmental Biology — 4 crs.  
 ENVHEL 109 Applied Environmental Chemistry — 4 crs.  
 ENVHEL 103 Toxic and Hazardous Substances — 3 crs.  
 ENVHEL 145 Water/Wastewater Operations - Municipal — 3 crs.  
 ENVHEL 173 Environmental Bacteriology — 3 crs.

ENVHEL 104 Industrial Hygiene Technology — 4 crs.  
 ENVHEL 111 Water and Wastewater Analysis — 4 crs.  
 ENVHEL 115 Air Pollution Technology — 4 crs.  
 ENVHEL 146 Water/Wastewater Operations Industrial — 3 crs.  
 ENVHEL 105 Fund. of Hazardous Materials Control — 4 crs.  
 ENVHEL 119 Food and Dairy Quality Control — 3 crs.

ENVHEL 143 Interpersonal Communication Skills & Environmental Management — 3 crs.

**Electives, 6 credits needed. i.e.:**

ENVHEL 126 Environmental Lab Projects — 3 crs.  
 ENVHEL 127 Environmental Field Projects — 3 crs.

**ENVIRONMENTAL STUDIES MAJOR****48 crs.**

The Environmental Studies major is expected to take POLS 221 Environmental Policies as the citizenship requirement, BIO 367 Ecology of the Tropics as the culture requirement, PHIL 240 Environmental Ethics as the philosophical foundation requirement, MATH 205 Statistics as the math requirement, BIO 256 Environmental Science as the science requirement and LEGL 230 Environmental Law as the social science requirement in the core.

**Biological Science – 23 crs.**

BIO 244 Botany — 4 crs.  
 BIO 240 Zoology — 4 crs.  
 BIO 260 Biology of Microorganisms — 4 crs.  
 BIO 348 Genetics — 4 crs.  
 BIO 399 Internship — 2 crs.  
 BIO 410 Ecology — 4 crs.  
 BIO 490 Biology Seminar — 1 crs.

**Physical and Earth Science - 19 crs.**

PHYS 121 Elementary Physics **OR**  
 PHYS 151 General Physics I — 4 crs.  
 CHEM 205 Elements of Gen and Biological Chemistry — 4 crs.  
 CHEM 361 Environmental Chemistry/ Toxicology — 3 crs.  
 SCI 246/GEOG 246 Oceanography/ The World's Oceans — 4 crs.  
 SCI 135/GEOG 311 Earth Science/ Physical Geography — 4 crs.

**Electives in Major—Choose a minimum of 6 crs. from the following:**

BIO 368 Tropical Ecology Lab — 1 crs.  
 BIO 370 Ornithology — 4 crs.  
 BIO 399 Internship — up to 2 additional crs.  
 BIO 417 Plant Anatomy — 4 crs.  
 BIO 425 Biochemistry — 4 crs.  
 BIO 444 Systematics — 4 crs.  
 SCI 195 Meteorology — 3 crs.  
 SCI 303 Cosmogony — 3 crs.  
 ART 222 Outdoor Drawing and Painting — 3 crs.  
 GEOG 250 Economic Geography — 3 crs.  
 CHEM - any chemistry course 3-4 crs.  
 PHYS 152 - General Physics II — 4 crs.

**Recommended Electives:**

COMM 223 Public Relations — 3 crs  
 ECON 200 Principles of Economics — 3 crs.  
 GEOG 220 Cultural Geography — 3 crs.

**HORTICULTURE MAJOR**
**43 crs.**

The Horticulture Major consists of 44 credit hours of course work completed through a cooperative program with Milwaukee Area Technical College (MATC). MATC-Mequon Campus is just a 5-minute drive from Concordia and offers three unique choices to prepare students for an exciting career in horticulture: Design Track, Maintenance Track, or Construction Track. (Current MATC catalog is the official source for Major Courses and their descriptions.) In addition to the CUW Liberal Arts core requirements and required courses listed below, all horticulture majors must complete requirements for a CUW Minor. Required core courses may be taken at either MATC or CUW.

For specific information about MATC courses and degree requirements, please visit the MATC website at <http://oncampus.matc.edu/catalog/index1.htm>.

**REQUIRED HORTICULTURE COURSES (MATC CAMPUS):**

\* courses common to all horticulture students

- |  |  |
|--|--|
| *HORT 111 Introduction to Horticulture — 3 crs.      | *HORT 122 Landscape Design I — 3 crs.                      |
| *HORT 112 Horticulture Soils — 3 crs.                | *HORT 126 Landscape Estimating & Bidding — 3 crs.          |
| *HORT 114 Survey of Woody Ornamental Plants — 3 crs. | *HORT 118 Landscape Business Principles — 3 crs.           |
| *HORT 116 Landscape Equipment — 3 crs.               | *HORT 125 Landscape Plants Shrubs — 2 crs.                 |
| *HORT 113 Ornamental Plant Healthcare — 3 crs.       | *HORT 132 Horticulture Communications & Marketing — 2 crs. |
| *HORT 159 Survey of Herbaceous Plants — 2 crs.       | SUBTOTAL 31 crs.   |

After completing the courses outlined above, students will select a specialized track:

**DESIGN TRACK**

- HORT 119 Landscape Construction 1 — 3 crs.
- HORT 123 Landscape Design 2 — 3 crs.
- HORT 160 Landscape Plants Trees — 2 crs.
- HORT 161 Landscape Plants Shrubs — 2 crs.
- HORT 124 Design III — 2 crs.
- SUBTOTAL 12 crs.

- HORT 121 Irrigation, Lighting, and Ponds — 3 crs.
- HORT 120 Landscape Construction 2 — 3 crs.
- SUBTOTAL 12 crs.

**MAINTENANCE TRACK**

- HORT 133 Turf Management & Related Equipment — 3 crs.
- HORT 160 Landscape Plants Trees — 2 crs.
- HORT 127 Arboriculture 1 — 3 crs.
- HORT 161 Landscape Plants Shrubs — 2 crs.
- HORT 171 Exterior Plant Pests — 2 crs.
- SUBTOTAL 12 crs.

**CONSTRUCTION TRACK**

- HORT 119 Landscape Construction 1 — 3 crs.
- HORT 117 Landscape Equipment 2 — 3 crs.

**NATURAL SCIENCE MAJOR**
**54 crs.**

The Natural Science major is expected to take PHIL 240 as the philosophical foundation requirement, MATH 205 as the math requirement, and SCI 135 as the science requirement in the core. BIO 367 is recommended to fulfill the culture requirement.

**OPTION I: Biology/Environmental Science EMPHASIS Concentration**
**Biology/Environmental Science Subcategory—25 crs.**

- BIO 140 General Biology I **OR**
- SCI 150 Life Sciences — 4 crs.
- BIO 146 Anatomy/Physiology — 4 crs.
- BIO 240 Zoology — 4 crs.
- BIO 244 Botany — 4 crs.
- BIO 256 Environmental Science — 4 crs.
- BIO 348 Genetics — 4 crs.
- BIO 490 Senior Seminar — 1 crs.

**Earth Science Subcategory —13 crs.**

- PHYS 107 Astronomy — 3 crs.
- SCI 195 Meteorology — 3 crs.
- SCI 246 Oceanography — 4 crs.
- SCI 303 Cosmogony — 3 crs.

**Physical Science Subcategory — 16 crs.**

- PHYS 151 Physics I — 4 crs.
- SCI 155 Physical Sciences or PHYS 152 — 4 crs.
- CHEM 210 Inorganic Chemistry — 4 crs.
- CHEM 213 Inorganic Chemistry — 4 crs.

**OPTION II: PHYSICAL Science EMPHASIS Concentration**
**Physical Science Subcategory — 24 crs.**

- PHYS 151 Physics I — 4 crs.
- PHYS 152 Physics II — 4 crs.
- CHEM 210 Inorganic Chemistry — 4 crs.
- CHEM 213 Inorganic Chemistry — 4 crs.
- Electives subject to Science Faculty approval — 8 crs.

**Earth Science Subcategory — 13 crs.**

- PHYS 107 Astronomy — 3 crs.
- SCI 195 Meteorology — 3 crs.
- SCI 246 Oceanography — 4 crs.
- SCI 303 Cosmogony — 3 crs.

**Biology/Environmental Science Subcategory – select 17 crs.**

- BIO 140 General Biology I **OR**
- SCI 150 Life Sciences — 4 crs.
- BIO 142 General Biology II — 4 crs.
- BIO 146 Anatomy/Physiology — 4 crs.
- BIO 240 Zoology — 4 crs.
- BIO 244 Botany — 4 crs.
- BIO 256 Environmental Science — 4 crs.
- BIO 367 Ecology of the Tropics — 3 crs.
- BIO 368 Tropical Ecology Lab — 1 cr.
- BIO 410 Ecology — 4 crs.
- BIO 490 Senior Seminar — 1 cr.

**SCIENCE MINOR****23-24 crs.**

BIO 140 General Biology I or SCI 150 — 4 crs.  
 BIO 146 Anatomy and Physiology — 4 crs.  
 BIO 256 Environmental Science — 4 crs.  
 CHEM 205 General Chemistry — 4 crs.  
 SCI 135 Earth Science — 4 crs.  
 Elective Subject to Science Faculty approval — 3-4 crs.

**CHRISTIAN THOUGHT MINOR****24 crs.****Core:**

REL 201 Old Testament  
 REL 204 Biblical Theology  
 REL XXX Theology Elective

**Christian Thought Minor: 24 credits****Required (18 crs)**

HIST 208 History of Christianity	PHIL 334 Christ and Culture
HIST 475 The Reformations	REL 203 New Testament
PHIL 325 Christian Apologetics	REL 310 Religion in America Today

Students may “double dip” with a related major a maximum of one of the above courses. REL 333 What Is Truth? is recommended as the core theology elective.

**Elective (6 crs)**

ART 381 Aesthetics	PHIL/COMM 372 The Lord of the Rings and Philosophy
COMM/REL 275 Theology and Film	PSY 360 Psychology and Religion
ENG 465 Shakespeare	REL 298 Faith and Culture
ENG 475 Literary Criticism	REL 307 Wisdom of Israel
HIST 322 Classical World	REL 315 Principles of Biblical Interpretation
HIST 277 Byzantium	REL 340 Life of Christ
HIST 356 The Middle Ages	REL 342 Dead Sea Scrolls
HIST 358 Early Modern Europe	REL 347 Law and Gospel in the Life of the Church
HIST 466 The American Idea	REL 346 Pauline Literature
HIST 475 The Reformations	REL 351 Prophets of Israel
PHIL 211 Elementary Logic	REL 356 Life of Paul
PHIL 240 Environmental Ethics	REL 376 Christian Ethics
PHIL 250 Moral Philosophy	REL 379 Religion and the Law
PHIL 309 History and Philosophy of Science	REL 404 Theology of the Lutheran Confessions
PHIL 311 The Christian Mind	REL 410 World Religions
PHIL 333 The Life and Christian Philosophy of C. S. Lewis	REL 430 Christ in the Old Testament
PHIL 333 The Chronicles of Narnia and Philosophy	REL 432 Psalms
PHIL 350 Bioethical dilemmas	REL 445 Life and Thought of Martin Luther.
PHIL/COMM 371 Philosophy and Film	SCI 303 Cosmogyny

Other approved courses may be considered.

Students may “double dip” with the Core a maximum of one of the above courses.

**THE COMMUNICATION PROGRAM**

**OUR MISSION:** To help students in Concordia’s Communication Department grow in their understanding and application of communication skills for service to Christ in the Church and the world.

**COMMUNICATION VOCATIONS:** The Communication Department prepares graduates for media, non-profit, government or corporate jobs. A listing of recent graduates' career placements is available on the Communication Department website.

**MAJORS:** Students majoring in Communication earn a total of 39-40 credits in one of four majors including Mass Communication, Public Relations, Multimedia Communication or Business Communication. Students majoring in Communication take 18 credits in the Communication Core and 21-22 credits in the major they choose. The Communication Core emphasizes writing, speaking, interpersonal, and small-group communication skill. Students will apply theoretical and practical knowledge in a senior seminar project and by participating in a 3-4 credit internship.

The **Business Communication Major/Minor** is for students that want a non-financial communication-skills career in nonprofit or corporate organizations; **it is not a Business Major or part of the Business program and does not require accounting, economics, finance, or money management classes.** Students pursuing "people skills" jobs that require good communication can gain proficiency in team building, managing conflict, interviewing, negotiating, writing clear and persuasive messages, giving presentations, and using communication to motivate employees and satisfy customers.

The **Mass Communication Major/Minor** provides a broad-based liberal arts approach to better understanding and using radio, television, film, video, and print media. An emphasis is placed on giving students skills in writing and editing skills across the various media.

The **Public Relations Major/Minor** gives students skills pertaining to careers in public relations, event planning, news editing, and image management. Web design and journalistic skills are developed. Students write articles for the school's newspaper, The Beacon.

Finally, our **Multimedia Major/Minor** challenges students with innovative technology associated with film and video production, animation, and multimedia production. Student-made productions showcase the marketable skills learned in this hands-on, highly practical major. *Effective in Fall 2008, students in this program are required to purchase a Macintosh computer and software (at educational discount) for multimedia production;* the cost is approximately \$3,000 and may be eligible for financial aid as a tuition expense.

**MINORS:** The Communication Department *offers five minors for students majoring in a non-Communication field.* Each of our four tracks (**Business Communication, Mass Communication, Public Relations, and Multimedia**) may be taken as a minor by students regardless of their major. Finally, a **21-credit Speech Communication Minor licensed by the Department of Public Instruction** is offered through our Education Division in association with their Elementary Education program. *The Education Division anticipates approval of a similar program for Secondary Education in late 2006.*

## COMMUNICATION MAJORS & MINORS

All Communication majors take the Common Core and choose at least one of four specializations (Business Communication, Mass Communication, Public Relations, or Multimedia) as their major. They may double major by completing a second specialization among those below. Each of the four specializations may be selected as a minor by students majoring in a non-Communication major. Classes required in more than one major/minor may be used to "double dip" or fulfill requirements in each Communication major/minor without the need to substitute a different class.

### COMMUNICATION CORE (18 credits - required for all 4 Majors)

COMM 105 Public Speaking (taken in the narrative core) — 3 crs.	COMM 265 Journalism — 3 crs.
COMM 460 Cross Cultural Communication (taken as Culture in Narrative Core) — 3 crs.	COMM 280 Careers in Communications — 3 crs.
COMM 201 Interpersonal Communication — 3 crs.	COMM 385 Interviewing Principles — 3 crs.
	COMM 470 Internships — 3 crs.
	COMM 490 Senior Seminar — 3 crs.

## THE MAJORS (39-40 credits)

### THE BUSINESS COMMUNICATION MAJOR OR MINOR

The **Business Communication Major** (40 credits) is fulfilled by taking the following courses plus the 18 credit Communication Core. The **Business Communication Minor** (22 credits) is earned by completing each of the classes in this list.

COMM 191 Beacon — 1 cr.	COMM 380 Organizational Communication — 3 crs.
COMM 205 Advanced Public Speaking — 3 crs.	COMM 385 Interviewing Principles (taken in COMM Core; required for Minor) — 3 crs.
COMM 247 Business Writing — 3 crs.	COMM 390 Conflict Management — 3 crs.
COMM 300 Group Dynamics — 3 crs.	BUS 130 Principles of Management — 3 crs. (not required for Minor)
COMM 333 Servant Leadership <b>OR</b>	
COMM 354 Gender and Communication — 3 crs.	

### MASS COMMUNICATION MAJOR OR MINOR

The **Mass Communication Major** (39 credits) is fulfilled by taking the following courses plus the 18 credit Communication Core. The **Mass Communication Minor** (21 credits) is earned by completing each of the classes in this list.

COMM 191/193 Beacon <b>and</b> WCUW (at least 1 credit each) — 3 crs.	COMM 339 Film and Video Production — 3 crs.
COMM 250 Intro to Mass Communication — 3 crs.	COMM 351 Radio Production — 3 crs.
COMM 321 Media Writing — 3 crs.	COMM 439 Advanced Film & Video Production <b>OR</b>
COMM 329 Film History <b>OR</b>	COMM 347 Animation — 3 crs.
COMM 371 Philosophy & Film — 3 crs.	

## MULTIMEDIA MAJOR OR MINOR

The *Multimedia Major* (39 credits) is fulfilled by taking the following courses plus the 18 credit Communication Core. The *Multimedia Minor* (21 credits) is earned by completing each of the classes in this list.

ART 110 Design I (2 Dim Design) can fulfill Creative Arts requirement in Distributive Core) — 3 crs.	COMM 348 Multimedia Production — 3 crs.
COMM 322 Multimedia Design — 3 crs.	COMM 439 Advanced Film & Video Production — 3 crs.
COMM 339 Film and Video Production — 3 crs.	COMM 448 Advanced Multimedia Production — 3 crs.
COMM 347 Animation — 3 crs.	ELECTIVE Choose from: ART 131, ART 231, COMM 329, CSC 390, GD 101, or GD 360 — 3 crs.

## PUBLIC RELATIONS MAJOR OR MINOR

The *Public Relations Major* (40 credits) is fulfilled by taking the following courses plus the 18 credit Communication Core. The *Public Relations Minor* (22 credits) is earned by completing each of the classes in this list.

GD 110 Graphic Design I (can fulfill Creative Arts requirement in Distributive Core) — 3 crs.	COMM 300 Group Dynamics — 3 crs.
COMM 191 Beacon — 1 cr.	COMM 321 Media Writing — 3 crs.
COMM 205 Advanced Public Speaking — 3 crs.	MKTG 131 Principles of Marketing — 3 crs.
COMM 223 Public Relations — 3 crs.	COMM 423 Advanced Public Relations — 3 crs.
	GD 360 Web Design I — 3 crs.

## COMPUTER SCIENCE PROGRAMS

Computer science is the foundation of 21st century technology. From movies to music, from automobiles to virtual zones, computer scientists create the technology that empowers society.

Computer science is problem solving. The computer scientist is a person who is concerned with creating computer systems, with an emphasis on software, which will assist other people in solving problems. The computer scientist is proficient with current software applications and hardware technologies; however, more importantly, the computer scientist possesses a deep understanding of the concepts underlying current computer technology.

The computer scientist is chiefly concerned with algorithms general methods of solving problems. Computer scientists must be creative; they must be able to discover innovative ways to apply problemsolving techniques to new and diverse situations.

The computer science program offers a number of majors and minors in order to match student interests and abilities with meaningful vocations.

See [www.cuw.edu](http://www.cuw.edu) for the latest information on the Computer Science programs.

## COMPUTER SCIENCE MAJOR

The BS degree program in Computer Science is designed for students who want to create software and design computer systems. Students interested in graduate school or working for software development firms should pursue this degree. This program provides students with a deep understanding of creating algorithms, programming, and heuristic problem solving. This program prepares students for vocations such as software engineer, network developer, database administrator, application developer, computer scientist, researcher, and graduate student.

The computer science student should begin the Computer Science major program with a strong high school background in Mathematics, Science, and English.

*Core Curriculum* 48 credits

Any Calculus course is required for MATHEMATICS

Any 4 credit Physical Science course is required for LAB SCIENCE

*Professional Core* 19 credits

Any 4 credit Physical Science course (not included in the Core above)

MATH 205 Statistics I

MATH 220 Discrete Mathematics

PHIL 201 Introduction to Philosophy

PHIL 211 Elementary Logic

SCI 303 Cosmology

*Major* 42 credits

Required 36 credits

CSC 150 Foundations of Computer Science

CSC 175 Advanced Software Applications

CSC 250 Computer Science Theory and Practice I

CSC 300 Computer Science Theory and Practice II

CSC 325 Computer Organization and Architecture I

CSC 425 Computer Organization and Architecture II

CSC 350 Computer Operating Systems

CSC 370 Software Engineering

CSC 450 Systems Software

CSC 470 Programming Languages

CSC 490 Senior Seminar I

CSC 491 Senior Seminar II

Electives (Upper Division) 6 credits

additional 300level or above CSC courses; consult  
with your advisor for approval

*Minor* 18 credits +

*Free Electives* 3 credits +

Program total (minimum) for BS degree — 130 credits



## COMPUTER INFORMATION SCIENCES MAJOR

The BA degree program in Computer Information Sciences offers more options than the computer science degree and is suitable for students who want to design and create systems for businesses that aren't "computer specific," such as healthcare, manufacturing, service and retail. This program prepares students for vocations such as programmer/analyst, network administrator, systems analyst, software quality engineer, web developer, and information specialist. Unlike the Computer Science major, there is a limited professional core requirement and there are more options in the major itself.

*Core Curriculum* 48 credits

PHIL 201, Introduction to Philosophy is required for Philosophical Foundations

*Professional Core* 6 credits

PHIL 211, Elementary Logic SCI 303, Cosmogony

*Major* 39 credits

Required 33 credits

CSC 150, Foundations of Computer Science

CSC 175, Advanced Software Applications

CSC 250, Computer Science Theory and Practice I

CSC 300, Computer Science Theory and Practice II

CSC 325, Computer Organization and Architecture I

CSC 350, Computer Operating Systems

CSC 370, Software Engineering

CSC 450, Systems Software

CSC 470, Programming Languages

CSC 490, Senior Seminar I

CSC 491, Senior Seminar II

Electives (Upper Division) 6 credits

additional 300 level or above CSC courses; consult

with your advisor for approval

*Minor* 18 credits +

*Free Electives* 15 credits +

Program total (minimum) for BA degree 126 credits

## INFORMATION TECHNOLOGY MAJOR

The BA degree program in Information Technology is designed for students who are interested in specifying, managing and configuring technology for their organization. An IT graduate responds to the practical, ongoing demands of a business for computing resources. Because all organizations utilize technology, the IT graduate solves problems by supporting the business and other employees in their quest for information.

This program prepares students for vocations such as system administrator, technologist, system trainer, technical marketing, computer support specialist, communications engineer, telecommunications specialist, computer operations and data center director.

Unlike the Computer Science and Computer Information Sciences majors, there is less programming required and even more options in the major itself.

Many courses are offered in the eLearning format (online via the web).

*Core Curriculum* 48 credits

PHIL 201 Introduction to Philosophy is required for Philosophical Foundations

*Professional Core* 6 credits

PHIL 211 Elementary Logic

SCI 303 Cosmogony

*Major* 36 credits

Required 24 credits

CSC 150 Foundations of Computer Science

CSC 175 Advanced Software Applications

CSC 250 Computer Science Theory and Practice I

CSC 325 Computer Organization and Architecture I

CSC 350 Computer Operating Systems

CSC 370 Software Engineering

CSC 450 Systems Software

CSC 491 Senior Seminar II

Electives (Upper Division) 12 credits

additional 300level or above CSC courses; consult

with your advisor for approval

*Minor* 18 credits +

*Free Electives* 18 credits +

Program total (minimum) for BA degree 126 credits

## COMPUTER SCIENCE MINOR

21 crs.

Computer Science is the study of computerized problem solving. A computer science minor is an excellent supplement to any major as it enhances the student's problem solving skills and abilities. People who understand computer science concepts are in great demand in our present information age. Note that a business major and a computer science minor is equivalent to an "MIS" degree offered at many institutions.



CSC 150 Foundations of Computer Science — 3 crs.  
 CSC 175 Advanced Software Applications — 3 crs.  
 CSC 250 Computer Science Theory and Practice I — 3 crs.  
 CSC 325 Computer Organization and Architecture I — 3 crs.

CSC 350 Computer Operating Systems — 3 crs.  
 Upper Division Computer Science Electives — 6 crs.  
 (choose any two 3-credit upper division Computer Science courses as electives)

**COMPUTER INFORMATION SCIENCES MINOR**

**18 crs.**

CSC 150 Foundations of Computer Science — 3 crs.  
 CSC 175 Advanced Software Applications — 3 crs.  
 CSC 250 Computer Science Theory and Practice I — 3 crs.  
 CSC 325 Computer Organization and Architecture I — 3 crs.

CSC 350 Computer Operating Systems — 3 crs.  
 Upper Division Computer Science Electives — 6 crs.  
 (choose any 3-credit upper division Computer Science course as an electives)

Note that CUW offers graduate degrees in the Computer Science program also.

**ENGLISH MAJOR AND MINOR (Does not apply to Education students)**

	(39 cr) MAJOR	(18 cr) MINOR		(39 cr) MAJOR	(18 cr) MINOR
<b>Language</b>	6	3	<b>English Literature</b>	6	3
English Grammar and Usage — 3 crs.			English Literature I — 3 crs.		
English: Its Cultural Development — 3 crs.			English Literature II — 3 crs.		
<b>Expression</b> Select one	3	3	<b>Other Requirements</b>	9	
Advanced Writing — 3 crs.			Shakespeare — 3 crs.		
Creative Writing — 3 crs.			Literary Criticism — 3 crs.		
Advanced Speech — 3 crs.			Senior Seminar — 3 crs.		
<b>American Literature</b>	6	3	<b>Electives in English</b>	9	6
American Literature I — 3 crs.					
American Literature II — 3 crs.					

**Writing Emphasis Minor/Emphasis within the Major Language**

ENG 305 English Grammar and Usage — 3 crs.  
 ENG 365 English - Its Cultural Development — 3 crs.

ENG 246 Creative Writing — 3 crs.  
 ENG 350 Classical and Modern Rhetoric — 3 crs.

**Expression**

ENG 245 Advanced Writing — 3 crs.

**Other Requirements**

ENG 351 Practicum in Writing Consultation — 3 crs.

**ENGLISH AS A SECOND LANGUAGE PROGRAM**

This program is directed to assist non-English speaking students to improve their communication skills. The areas of concentration are reading, writing and conversation. The curriculum in ESL is designed to prepare individuals to attend regular college classes or to return to their homes with a strong background and experience in communicating in English and in the cultural aspects of America.

International students must present a minimum of 500 TOEFL for regular acceptance. Any International Student who can not present a 500 TOEFL must test through the International Office for placement and may be required to enroll in the ESL program.

**EXERCISE PHYSIOLOGY MAJOR**

**49 crs.**

The Exercise Physiology major at Concordia prepares students to understand how the body responds and adapts to the stress of physical exertion. A thorough knowledge of exercise physiology enables one to understand the physiological mechanisms responsible for the acute and chronic response to physical activity. Students can apply this knowledge to activity recommendations for individuals in prevention and rehabilitation programs or develop training programs for athletes.

Coursework in the Exercise Physiology major includes a strong foundation in the sciences plus significant hands-on laboratory work assessing cardiovascular, neuromuscular, and pulmonary responses in Concordia's Exercise Physiology Laboratory. An emphasis is on clinical exercise physiology and the relation of exercise to the prevention and rehabilitation of chronic disease. Students are encouraged to pursue internship experiences, to prepare for national certifications through exercise physiology-related organizations, and when possible, to participate in state and national meetings associated with exercise physiology and healthy behaviors (i.e. American College of Sports Medicine).

Concordia's Exercise Physiology program prepares students for careers in fitness facilities, prevention/rehabilitation clinical exercise programs, personal training, pre-professional preparation for careers in the traditional healthcare fields such as physical or occupational therapy, or continued academic work in an Exercise Physiology Masters program such as Concordia's Masters Degree in Rehabilitation Science.

BIO 280/281 Human A & P w/lab — 4 crs.  
 BIO 285 Pathophysiology — 3 crs.  
 BIO 470 Human Physiology — 4 crs.  
 CHEM 210 Inorganic Chem I w/lab — 4 crs.  
 CHEM 213 Inorganic Chem II w/lab — 4 crs.  
 PHYS 151 (Physics) — 4 crs.  
 PHYS 152 (Physics) — 4 crs.  
 HHP 171 Intro to Ex Science — 1 cr.  
 HHP 209 CPR & First Aid — 2 crs.  
 HHP 280 Psychology of Sport — 3 crs.  
 HHP 342 Nutrition for Wellness & Perf. — 3 crs.

HHP 371 Exercise Physiology I — 3 crs.  
 HHP 373 Motor Development — 3 crs.  
 HHP 375 Biomechanics — 3 crs.  
 HHP 442 Exercise Testing & Presc. — 4 crs.  
 HHP 471 Adv. Exercise Physiology — 4 crs.  
 HHP 475 Seminar in Exercise Phys. — 2 crs.  
 HHP 480 Designing Resistance Training Program — 3 crs.  
 HHP 494 Exercise & Chronic Disease — 3 crs.  
 MATH 205 Statistics — 3 crs.  
 PHIL 350 Bioethical Dilemmas — 3 crs.  
 HHP 495 Senior Seminar — 3 crs.  
 and/or HHP Internship (3-6 cr.)

Although CHEM 210/213, PHYS 151/152, and BIO 470 are recommended for all Exercise Physiology majors, only Pre Physical Therapy are required to take them for admittance into a Physical Therapy program. A single semester Chemistry and Physics could be substituted for the two semester sequence. It is recommended you check with your advisor for further information on the Exercise Physiology curriculum options.

Exercise Physiology major students may take either Senior Seminar (Research Project) or do an Internship. Students may do both if so desired.

**GERMAN MAJOR AND MINOR**

	MAJOR (34 crs.)	MINOR (21 crs.)
GER 201 Intermediate German I	3	3
GER 202 Intermediate German II	3	3
GER 301 German Conversation and Composition	3	3
GER 306 German Lit. from 1750 to the 20th Century	3	3
GER 307 Applied German Linguistics	3	
GER 331 Advanced German Grammar	3	3
GER 361 German Civilization and Culture	3	3
GER 490 Senior Seminar/Capstone Course	3	
German Elective		3
Advanced German Language (study abroad)	10	

**HISTORY MAJOR AND MINOR**

	(36 crs.)	(21 crs.)
REQUIRED:	MAJOR	MINOR
U.S. History	6	3
European History	6	3
Non-Western/Global History	6	3
HIST 385 Historical Methods	3	3
HIST 490 Senior Seminar	3	
<b>AND (the student must choose one of the following)</b>		
<b>I. Emphasis in American History</b>		
U.S. History	9	6
European or Non-western/Global history	3	3
<b>OR II. Emphasis in European History</b>		
European history	9	6
U.S. or Non-western/Global history	3	3
<b>OR III. Emphasis in Global History</b>		
Non-western/Global history	9	6
U.S. or European history	6	3

**HUMANITIES MAJOR AND MINOR**

	(30 crs.)	(18 crs.)
	MAJOR	MINOR
Art History I	3	3
Historical Methods	3	3
World Literature	3	3
Senior Seminar	3	3
Music History I or II	3	3
Foreign Language	3	3
Electives*	12	

\*These electives may be chosen from courses offered in History, Literature, Music, English, Art, and Languages.

**THE LAY MINISTRY PROGRAM**

This program equips men and women to work under a pastor’s guidance and direction in a congregation by requiring students to specialize in two areas of ministry. The possibilities include evangelism, missions, social ministry and visitation, parish teaching, youth ministry, and pre-deaconess studies (for women who intend to enroll in the master’s degree deaconess programs at either of the Lutheran Church–Missouri Synod seminaries). Because of the nature of this work, graduates must demonstrate good human relations skills and a life worthy of Christian example. Graduates are solemnly appointed to positions in congregations, church boards, or agencies, and are eligible to be rostered in the Lutheran Church–Missouri Synod with the designation “Minister of Religion Commissioned – Lay Minister.” Concordia University Wisconsin is the only synodical school at which this program is offered. Curriculum requirements for the extension track are listed under certificate programs. Application to any of the tracks of this program involves steps in addition to application to the university. Applicants should contact the assistant director of the program for application information.

**BACHELOR OF ARTS IN LAY MINISTRY DEGREE (both minor and major required)****Church-Work Core:**

REL 201 Old Testament – 3 cr.  
 REL 204 Biblical Theology – 3 cr.  
 REL XXX Theology Elective – 3 cr.

**MINOR**

Required in Program:

REL 203 New Testament – 3 cr.  
 REL 312 Office of Professional Church Worker – 3 cr.  
 REL 404 Lutheran Confessions – 3 cr.  
 REL 420 Lay Ministry Internship – 3 cr.  
 Religious Education Elective: – 3 cr.  
 REL 229 Religious Education of Youth and Adults **OR**  
 REL 233 Communicating Bible Messages **OR**  
 ED 306 Teaching the Faith **OR**  
 ED 316 Teaching the Faith for the Christian  
 Public Educator **OR**  
 ED 362 Faith Development of Young Child

**MAJOR**

Required in Program:

COMM 201 Interpersonal Communication – 3 cr.  
 HHP 209 First Aid and CPR – 2 cr.  
 REL 233 Communicating Bible Messages – 3 cr.  
 REL XXX Theology Elective I – 3 cr.  
 REL XXX Theology Elective II – 3 cr.

Comparative Religion Elective: – 3 cr.

REL 388 Varieties of Belief (TEE) **OR**  
 REL 310 Religion in America **OR**  
 REL 410 World Religions  
 REL XXX Theology Elective in Outreach  
 (i.e., evangelism, missions) – 3 cr.  
 REL XXX Theology Elective in Bible I  
 (i.e., upper-level course on biblical book) – 3 cr.

**Total: Church Work Core + 24 cr.**

Specialization AAA (see program director for details):

Elective I – 3 cr.  
 Elective II – 3 cr.  
 Elective III – 3 cr.

Specialization BBB (see program director for details):

Elective I – 3 cr.  
 Elective II – 3 cr.  
 Elective III – 3 cr.

**Total: Church Work Core + 32 cr.**

**LAY MINISTRY CERTIFICATION COMBINED WITH RELATED MAJORS**

Students who have fulfilled a major in a field compatible with lay ministry, such as parish music, parish nursing, and social work, and who wish to be certified as lay ministers, may be certified after completing the lay ministry minor (see above).

**LAY MINISTRY — CERTIFICATE PROGRAM**

The certificate program does not lead to any college degree, but may be completed through the Theological Education by Extension or E-Learning tracks. The extension track is available in different sites around the country through a program of Theological Education by Extension.

The Theological Education by Extension model is designed for highly motivated adult learners who come together once a month for four or five times during a semester to complete a course. Candidates for certification need to meet other non-academic requirements. The E-Learning track offers two courses per semester. The E-Learning track requires two three-day residencies on campus for the introductory course (REL 105) and the capstone course (REL 495) 47 credits are required for completion. Please write or call (877-266-8694) the Lay Ministry Program for further information.

**Curriculum - Level 1 — 31 crs.**

Students completing Level 1 receive a certificate of completion

REL 105 Church Leadership Seminar — 1 cr.  
 REL 201 Old Testament — 3 crs.  
 REL 203 New Testament — 3 crs.  
 REL 204 Biblical Theology — 3 crs.  
 REL 221 Lutheran Worship — 3 crs.  
 REL 233 Communicating Bible Messages — 3 crs.  
 REL 311 Church in Mission (outreach elective) — 3 crs.  
 REL 383 Gospel of Luke (Bible elective I) — 3 crs.  
 REL 387 Christ's People through the Ages  
 (theology elective) — 3 crs.  
 REL XXX (Bible elective II) — 3 crs.  
 ED 306 Teaching the Faith  
 (religious education elective) — 3 crs.

**Curriculum - Level 2 — 19 crs.**

Students completing Level 2 are eligible to be rostered as Lay Ministers in the LCMS.

REL 245 Practicum — 3 crs  
 REL 312 Office of the Professional  
 Church Worker — 3 crs.  
 REL 328 Family and Youth Ministry  
 (elective in youth ministry or evangelism) — 3 crs.  
 REL 388 Varieties of Belief  
 (comparative religions elective) — 3 crs.  
 REL 404 Lutheran Confessions — 3 crs.  
 REL 420 Lay Ministry Internship — 3 crs.  
 REL 495 Lay Ministry Seminar — 1 cr.

**Placement**

The placement process for extension graduates is the same as for the four year graduates. However, placement for extension graduates tends to be more difficult. Most individuals entering the extension track are already serving in the church.

**Certification**

Students completing the extension track receive the same certification as four year students. The student must have a minimum of an Associate of Arts degree to be certified.

**MATHEMATICS MAJOR AND MINOR**

	(40 cr)	(21 crs)		(40 cr)	(21 crs)
	MAJOR	MINOR		MAJOR	MINOR
CSC 150 Foundations of Computer Science	3		MATH 321 Abstract Algebra	3	
MATH 201 Calculus I	4	4	MATH 325 Linear Algebra and Differential Equ.	4	
MATH 202 Calculus II	4	4	MATH 331 Geometry	3	
MATH 203 Calculus III	4	4	MATH 441 Real Analysis	3	
MATH 205 Statistics I*	3	3	MATH 490 Seminar	3	
MATH 220 Discrete Mathematics	3		Electives		6**
MATH 305 Statistics II	3				

\* Statistics I satisfies the mathematics requirement in the core.

\*\* Choose from: MATH 220, MATH 305, MATH 325, MATH 321, MATH 331, or MATH 441 or MATH 470.

**MISSIONS MINOR AND MAJOR:**

**Core:** Courses taken as part of the core curriculum must include the following:

Bible Content:	REL 201 Old Testament
Christian Doctrine:	REL 204 Biblical Theology
Theology Elective:	REL 210 The Great Commission

**Minor: 21 crs.**

- COMM 460 Cross Cultural Communication — 3 crs.
- REL 203 New Testament — 3 crs.
- REL 215 Friendship Evangelism — 3 crs.
- REL 298 Faith and Culture — 3 crs. or
- REL 311 Church in Mission
- REL 316 World Missions I — 3 crs.
- REL 326 World Missions II — 3 crs.
- REL 410 World Religions — 3 crs.

**Additional Courses for Major: +9 crs.**

- REL298/311 the one not taken for minor — 3 crs.
- Plus two of the courses listed below: — 6 crs.
- ANTH 201 Cultural Anthropology
- GEOG 220 Cultural Geography
- GEOG 248 India: People, Cultures, & Traditions
- HIST 241 Introduction of Latin America
- HIST 246 History of Japan
- REL 416 The Practice of Missions (missions trip)
- SPAN 101 Beginning Spanish I

**MUSIC DEPARTMENT MISSION STATEMENT**

The CUW Music Department contributes to the spiritual, artistic, cultural, academic and co-curricular life aspects to campus life at the University. In doing so, the faculty is committed to blending talent and fellowship to the highest degrees of professional artistry in praise of the Lord’s name. We additionally hope to impact our surrounding community while fulfilling our mission.

**AUDITION PROCEDURES FOR ALL MUSIC MAJORS**

To gain degree-seeking status as a music major, a student must:

- a. successfully pass the following:
  - 1) Qualifying audition with performance of two contrasting works on his/her major instrument (to be completed by the end of 2 semesters at CUW);
  - 2) Aural examination of sight reading, scales, and tonal memory ability for vocalists. Instrumentalists — sight-reading and scales only.
- b. prepare a portfolio of musical activities (solo and ensemble) and examples of music course work. This portfolio is to be:
  - 1) Presented at the time of the qualifying audition;
  - 2) Kept in the music office, with additions made to it throughout the student’s undergraduate career;
  - 3) Returned to the student upon completion of degree.

**MUSIC MAJOR AND MINOR**

	(40 cr)	(24 cr)		(40 cr)	(24 cr)
	MAJOR	MINOR		MAJOR	MINOR
Music Theory I	3	3	<i>Minor Choice:</i>		
Music Theory II	3	3	MUS 250 Beginning Conducting or		3
Music Theory III		3	MUS 445 Composing and Arranging		
Music Theory IV	3		MUS 250 Beginning Conducting	3	
Music History I	3	3	Major Choice:		
Music History II	3	3	MUS 351 Advanced Conducting or	3	
Other 300 level music history	3		MUS 445 Composing and Arranging		
Applied Music (studio)	8	3	*Electives (may include ensemble)	3	3
			MUS 499 Recital	2	

\*Music Majors must participate in ensembles every semester of residency (at least 3 semesters for credit)

**PARISH MUSIC PROGRAM (LCMS Rosterable)****Core Curriculum: 48 crs.**

## Common Core:

Bible Content: REL 201 Old Testament — 3 crs.

Christian Doctrine: REL 204 Biblical Theology — 3 crs.

## Narrative Core:

Communications: COMM 201

Interpersonal Communications — 3 crs.

## Elective Core:

Creative Arts: Participation in musical ensembles — 3 crs.

MUS 180 Chapel Ringers

MUS 181 Wind Ensemble

MUS 182 Concordia Chorale

MUS 184 Kammerchor

MUS 185 The Alleluia Ringers

MUS 190 String Ensemble/Chamber Orchestra

Theology Elective: — 3 crs.

**Minor — 18 crs.****Electives as needed — 6 crs.****Total Credits — 128 crs.****Additional required courses for LC-MS Roster — 9 crs.**

REL 203 New Testament — 3 crs.

REL 312 Office of the Church Worker — 3 crs.

REL 404 Theology of the Lutheran Confessions — 3 crs.

(These nine credits may be part of a Theology minor or elective credits.)

**Parish Music Major: 53 crs.**

Ensemble (additional to core) — 6 crs.

Music Theory 1, II, III, IV (3 crs. each) — 12 crs.

MUS 240, 241, 242, 243

Music History 1, II (3 crs. each) — 6 crs.

MUS 271, 272

Conducting: (3 crs each) — 6 crs.

MUS 250 Beginning Conducting

MUS 351 Advanced Conducting

Applied Music (min. 4 crs. Organ) — 8 crs.

Organ, Piano and/or Voice

MUS 445 Composing and Arranging — 3 crs.

MUS 461 Music in Worship — 3 crs.

MUS 465 Survey of Christian Hymnody — 3 crs.

Choose one of the following: — 3 crs.

MUS 422 Organ Literature

MUS 485 Handbell Methods and Materials

MUS 491 Parish Music Practicum/Internship

(120 hours) — 3 crs.

A Parish Music major with a Lay Ministry minor provides students with another option to serve the Church as church musicians. Upon graduation, students may be placed on the roster of Synod as Lay Ministry. Please see Lay Ministry Certification - combined with related majors in the catalog under Lay Ministry for this option.

**K-12 Music Education** (Instrumental and Choral) see Education Department section.

**Music Therapy Equivalency** Cooperation with Alverno College. See Music Department Chairman for more information.

**PHILOSOPHY MINOR****24 crs.**

Philosophy encourages: clear and critical thinking; and a rational approach to problem-solving using conceptual analysis, dialogue and argument. Due to the interdisciplinary character of philosophy, the minor is also a valuable complement to most majors (in particular, Art, History, English, Natural Science, Theology, Psychology, Social Work).

The emphasis on the careful statement and evaluation of arguments makes a philosophy minor good preparation for those entering the legal profession. Society needs individuals who are able to communicate clearly, to evaluate and construct arguments for or against a viewpoint, and to question received ideas. A minor in philosophy aims to satisfy this need.

**Core: (12 credit hours)**

REL 201 The Old Testament (Bible Content) — 3 cr.

REL 204 Biblical Theology (Christian Doctrine) — 3 cr.

REL XXX A theology elective — 3 cr.

PHIL 201 Introduction to Philosophy (narrative core; philosophical foundations) — 3 cr.

(double-dipped with minor) Required Courses for

**Philosophy Minor: 12 credits**

PHIL 201 Introduction to Philosophy — 3 cr.

(double-dipped with core)

PHIL 250 Moral Philosophy — 3 cr.

PHIL 211 Elementary Logic or

PHIL 325 Christian Apologetics — 3 cr.

REL 203 The New Testament

(to complete the pair with REL 201 in the core) — 3 cr.



**Elective Courses for Philosophy Minor: (select 12 credits)**

PHIL 240 Environmental Ethics  
 PHIL 309 History & Philosophy of Science  
 PHIL 311 The Christian Mind  
 PHIL 325 Christian Apologetics  
 (if not used as the logic course above)  
 PHIL 333 Special Topics in Philosophy  
 PHIL 334 Christ and Culture

PHIL 350 Bioethical Dilemmas in Contemporary Society  
 PHIL 371/COMM 371 Philosophy and Film  
 PHIL 372/COMM 372 The Lord of the Rings  
 and Philosophy  
 PHIL 381/ART 381 Aesthetics  
 ENG 475 Literary Criticism  
 Independent Study (can be used for capstone course  
 for individualized Major)

**PHILOSOPHY MAJOR****39 crs.**

The Philosophy Major consists of 39 credits, plus several prescribed core classes. Of the 39 credits for the Major, 27 are required and 12 are chosen from a list of approved electives. All students will complete the two semester senior seminar sequence developed by Theology (REL 490 and REL 491) alongside pre-seminary studies Majors. Students must also select a Minor; recommended Minors include computer science, history, political science, mass communications, legal studies, English, and pre-seminary studies. The Philosophy Major prepares students for graduate and professional study as well as for careers in government, law, political advocacy, and journalism.

**Required courses:****Core: (12 credit hours)**

REL 201 The Old Testament (Bible Content) — 3 cr.  
 REL 204 Biblical Theology (Christian Doctrine) — 3 cr.  
 REL XXX A theology elective — 3 cr.  
 PHIL 201 Introduction to Philosophy (narrative core;  
 philosophical foundations) — 3 cr.

**Philosophy Major core (27 credit hours):**

PHIL 250 Moral Philosophy — 3 cr.  
 PHIL 211 Elementary Logic — 3 cr.  
 PHIL 311 The Christian Mind — 3 cr.  
 PHIL 325 Christian Apologetics — 3 cr.  
 PHIL 400 Ancient Philosophy — 3 cr.  
 PHIL 450 Modern Philosophy — 3 cr.  
 REL 203 The New Testament (to complete the  
 pair with REL 201 in the core) — 3 cr.  
 REL 490 Senior Seminar I — 3 cr.  
 REL 491 Senior Seminar II — 3 cr.

**Philosophy Major electives (12 credit hours minimum):**

PHIL 240 Environmental Ethics — 3 cr.  
 PHIL 333\* Special Topics in Philosophy — 3 cr.  
 PHIL 334 Christ and Culture — 3 cr.  
 PHIL 350 Bioethical Dilemmas — 3 cr.  
 PHIL 371/COMM 371 Philosophy and Film — 3 cr.  
 PHIL 372/COMM 372 The Lord of the Rings  
 and Philosophy — 3 cr.  
 PHIL 381/ART 381 Aesthetics — 3 cr.  
 ENG 350 Classical and Modern Rhetoric — 3 cr.  
 ENG 475 Literary Criticism — 3 cr.  
 POLS 410 The Christian in Politics — 3 cr.  
 REL 333 What Is Truth? — 3 cr.  
 REL 388 Varieties of Belief — 3 cr.

Other approved courses relevant to the student's special area of interest in philosophy (e.g. a relevant history course if they are interested in philosophy of history, a relevant science course if interested in philosophy of science).

**POLITICAL SCIENCE MAJOR**

The Political Science major helps students understand how the injunction to love thy neighbor can be carried out in the political realm. To be active politically is more than just pursuing narrow, self-centered aims; it must also mean to work to improve the lives of others in the community, and the political science major is uniquely positioned to develop students who will see such service as part of their vocation. Graduates with a political science major will not only understand government and ways to affect change, but their actions and attitudes will be informed by the teachings of Christ.

The Political Science major consists of 36-39 credits, including 30-33 required credits and credits that are chosen from a list of approved electives. All students are required to complete an internship of at least 3 credits at the local, state, or national political level. During their senior year, majors will complete a two-course sequence of Research Methods (PSY 410) and Senior Seminar (PSY 490), culminating in a thesis. Students must also complete a minor. The Political Science major prepares students for graduate and professional study as well as for careers in government, law, journalism, non-profit agencies, education, and the military.

**Political Science Major core (30-33 credits)**

POLS 101 Introduction to Political Science — 3 cr.  
 POLS 201 American Government — 3 cr.  
 POLS 300 Comparative Politics — 3 cr.  
 POLS 310 International Relations — 3 cr.  
 POLS 359 Constitutional Law — 3 cr.  
 POLS 410 The Christian and Politics — 3 cr.  
 POLS 480 Internship — 3 to 6 cr.

PSY 410 Research Methods — 3 cr.  
 PSY 490 Senior Seminar — 3 cr.

Policy course – students must complete one of the following:  
 POLS 221 Environmental Policy — 3 cr.  
 LEGL 230 Environmental Law — 3 cr.  
 POLS 285 American Politics and Health Care Policy — 3 cr.



**Political Science Major Electives (6 credit hours minimum)**

Includes any course below not already counted in the major, including:

POLS 221 Environmental Policy — 3r.	POLS 491 Special Topics in Politics — 3 cr.
LEGL 230 Environmental Law — 3 cr.	JPP 104 Introduction to Courts — 3 cr.
POLS 255 The Presidency — 3 cr.	JPP 288 Terrorism — 3 cr.
POLS 285 American Politics and Health Care Policy — 3 cr.	JPP 414 White Collar/Financial Crimes — 3 cr.

**POLITICAL SCIENCE MINOR****18 crs.**

Students must take three required courses and then select three other Political Science courses.

**Required**

POLS 101 Introduction to Political Science — 3  
 POLS 201 American Government — 3  
 POLS 410 The Christian and Politics — 3

**Electives (select 9 credits)**

POLS 255 The Presidency — 3

POLS 359 Constitutional Law — 3

POLS 373 History of Capitalism I **OR**

POLS 374 History of Capitalism II — 3

POLS 491 Special Topics in Politics — 3 (up to 6 total)

REL 379 Religion and the Law — 3

**PRE-LAW CURRICULUM**

Most accredited law schools prefer a baccalaureate degree in the liberal arts. Law students are expected to attain a high level of scholarship. During the final year at Concordia, pre-law students must take the Law School Admission Test (LSAT), and apply to the law school of their choice. Early contact with the law school of their choice is recommended. The Association of American Law Schools avoids prescribing particular courses for a pre-law program. The Association calls attention to the quality of the undergraduate experience, which it believes is fundamental to the better attainment of legal competence.

**PRE-MEDICAL CURRICULUM**

Medical colleges give preference to students who have completed a four-year degree program. Medical colleges recognize and encourage a broad background in the liberal arts, including a variety of humanities and social science courses. Admission requirements vary among medical colleges; therefore, each student is advised to obtain catalogs from three or more medical colleges and then plan college work at Concordia to meet requirements. The successful completion of the required pre-medical courses does not assure admission to any college of medicine because the number of candidates exceeds the number that can be admitted. Medical colleges base selections on the quality of the student's college record, the Medical College Admission Test (MCAT), recommendations, and the results of a personal interview. It is important that a Concordia student interested in pursuing a pre-medical course of study articulate this early in his/her college experience to the appropriate advisor, so that all requirements can be met.

**THE PRE-SEMINARY PROGRAM**

The pre-seminary program provides academic preparation in the liberal arts for professional study for full-time pastoral ministry in the Lutheran Church—Missouri Synod. Following the earning of the baccalaureate degree, the pre-seminary student continues his program of study at Concordia Seminary, St. Louis, or Concordia Theological Seminary, Fort Wayne.

The mission of pre-seminary education is to prepare students for theological studies and pastoral formation at a seminary of the Lutheran Church—Missouri Synod. This preparation ordinarily encompasses biblical knowledge, biblical language competency, and understanding of Lutheran doctrine; competency in communication skills in reading, writing, speaking, and listening; skills in critical thinking and philosophical inquiry; acquisition of a global perspective; the understanding of and appreciation for the Lutheran ethos, identity, and ethic; and helping the student to perceive, proclaim, teach, and live out the centrality of the Gospel of Jesus Christ for the whole world.

Pre-seminary students are strongly encouraged to include two majors in their studies: theological languages and pre-seminary studies. These majors are designed to prepare students for the seminary competency examinations in the Old Testament, New Testament, Christian Doctrine, Greek, and Hebrew. These majors also include broader liberal arts studies in German or Latin, communication, writing, social science, and philosophy, all of which are helpful for theological study on a graduate level. In special cases, students in the pre-seminary program may choose other majors and minors, but must always include at least a minor in theological languages.

**Application for Entry into the Pre-Seminary Program**

Since the public ministry of Word and Sacrament is an office of the Church of Christ, it demands individuals exhibiting the highest level of talent, personal knowledge, aptitude, skill, and Christian character. For this reason the following criteria have been established for acceptance into the Pre-Seminary Program of Concordia University Wisconsin. Application is generally made in the second semester of the sophomore year.

1. Successful completion of a minimum of 45 semester hours of credit.
2. CGPA of 2.5 on a 4.0 scale. (Probationary acceptance may be given to students with a CGPA of at least 2.0 if other requirements are met.)
3. Evidence of proficiency in English and foreign languages appropriate to the pre-seminary program.

4. Submission of a completed application form, available from the theology office.
5. Completion of basic theology courses.
6. Exhibition of exemplary Christian life-style.
7. Interviews with and written recommendation of the pre-seminary director.

**Acceptance Procedure**

1. Notification of acceptance into the program will be made by letter.
2. Notification of non-acceptance or probationary acceptance of the applicant is made in a personal interview with the pre-seminary director. A formal letter of the decision is presented to the applicant during the interview.
3. A copy of this letter is filed in the applicant’s folder in the theology office.
4. A student who is refused acceptance into the pre-seminary program may re-apply up to two more times. Acceptance into the pre-seminary program is not a requirement for the successful completion of either major.

**Program Continuation**

To maintain “good standing” status in the pre-seminary program, a student must maintain a 2.5 CGPA.

**Curriculum**

**Core:** Courses taken as part of the core curriculum must include the following:

- Bible Content: REL 201 Old Testament
- Christian Doctrine: REL 204 Biblical Theology
- Theology Elective: REL XXX Elective
- Culture & Language: One of the language courses listed for the theological languages major
- Language & Culture: One of the language courses listed for the theological languages major

**THEOLOGICAL LANGUAGES MAJOR**

**33 crs.**

*Two of the language courses below are counted in the core, not in the major*

- GER/LAT Language Elective I — 3 crs.
- GER/LAT Language Elective II — 3 crs.  
(second semester of Language Elective I)
- GRK 201 Greek I — 3 crs.
- GRK 202 Greek II — 3 crs.
- GRK 303 Greek III — 3 crs.
- GRK 304 Greek IV — 3 crs.
- GRK 401 Luke & Septuagint — 3 crs.
- GRK 402 NT & Septuagint — 3 crs.
- HEB 301 Hebrew I — 3 crs.
- HEB 302 Hebrew II — 3 crs.
- HEB 401 Hebrew III — 3 crs.
- HEB 402 Hebrew IV — 3 crs.
- REL 203 The New Testament — 3 crs.

**PRE-SEMINARY STUDIES MAJOR**

**30 crs.**

- REL 221 Lutheran Worship — 3 crs.
- REL 490 Senior Seminar I — 3 crs.
- REL 491 Senior Seminar II — 3 crs.
- Theology Elective I: 3 crs.
- Theology Elective II: 3 crs.
- Bible Elective: Upper level — 3 crs.
- Speech Elective — 3 crs.  
COMM 205 Advanced Public Speaking
- Writing Elective — 3 crs.  
ENG 245 Advanced Writing  
ENG 246 Creative Writing  
ENG 350 Rhetoric — 3 crs.
- Social Science Elective — 3 crs.:  
PSY 101 General Psychology, **OR**  
*if General Psychology was taken in the core,*  
SOC 101 Introduction to Sociology  
Philosophy Elective — 3 crs.  
PHIL XXX Elective **OR**  
*if Philosophy was taken in the core,*  
a Literature elective

**PSYCHOLOGY MAJOR**

**36 crs.**

The requirements listed assume that the following prerequisite courses have been taken to satisfy the core curriculum: General Psychology, Introduction to Writing, Spoken Word, and Human Anatomy and Physiology I. A cumulative GPA of 2.75 and a 3.0 in psychology should be attained in order to enroll in any 300/400 level course.

- Theories of Learning — 3
- Child, Adolescent, Adult or Life Span Development (any one) — 3
- Statistics — 3
- \* Experimental Psychology — 3
- Interpersonal Communication — 3
- Theories of Personality — 3
- Social Psychology — 3
- \* Research Methods\*\* — 3
- Abnormal Psychology — 3
- \*\*\* Psychology Practicum — 3
- \* Senior Seminar\*\* — 3
- One 300-400 level Psychology electives — 3

\* These classes are to be taken in sequence - Experimental Psychology, Research Methods, Senior Seminar.

\*\* These classes require upper division status.

\*\*\* One of the course requirements for the Psychology Practicum is the completion of the Psychology specialty test of the GRE (Graduate Record Exam).

**PSYCHOLOGY MINOR****24 crs.**

Theories of Learning — 3  
 Social Psychology — 3

Choose 2 of the following: 6  
 Child Development  
 Adolescent Development  
 Adult Development  
 Lifespan Development

Theories of Personality — 3  
 \*Abnormal Psychology — 3  
 Experimental Psychology — 3  
 \*One elective at 300-400 level — 3  
 \*Requires upper division status

**SOCIAL WELFARE MINOR****18 crs.**

SW 100 Introduction to Social Work — 3  
 SW 205 Introduction to Social Welfare — 3  
 SW 346 Human Behavior/  
 The Social Environment I — 3

Electives: (choose 9 credits)  
 POLS 285 American Politics & Health Care Policy — 3  
 SW 306 Social Welfare Policy & Programs — 3  
 SW 347 Human Behavior/The Social Environment — 3  
 SW 375 Understanding Death & Dying — 3  
 SW 392 Aging & The Social Environment — 3

**SPANISH MAJOR AND MINOR (Non-Education)**

	(34 crs.) MAJOR	(24 crs.) MINOR
Intermediate Spanish I	3	3
Intermediate Spanish II	3	3
Conversation & Composition	3	3
Spanish or Latin American Literature	3	3
Advanced Grammar & Composition	3	3
Advanced Topics in Grammar	3	
Civilization & Culture of Latin America or Spain	3	3
Seminar/Capstone	3	
Upper level electives in Spanish	10	6

A semester or summer of study abroad is also required for a major. Required courses for the major may be fulfilled during study abroad. Span 101 and Span 102 do not count toward the major or minor. Spanish for Professions (1-3 crs.) is strongly encouraged as an elective for prospective Physical or Occupational Therapy students.

**ATHLETIC TRAINING EDUCATION MAJOR****UNDERGRADUATE ATHLETIC TRAINING EDUCATION PROGRAM****GENERAL ACADEMIC INFORMATION**

The undergraduate Athletic Training Education Program at Concordia University Wisconsin (CUW) is an accredited entry-level Athletic Training Education Program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render health care to a wide spectrum of individuals engaged in physical activity.

The Athletic Training Education Program at Concordia University Wisconsin is designed to produce National Athletic Trainers Association Board of Certification (NATABOC) Certified Athletic Trainers for today's market place. The NATABOC is the agency that examines and certifies all potential athletic training candidates. The NATABOC examination is taken at the end of your college career prior to entering the workforce. Certification through the NATABOC is required to practice Athletic Training.

**TECHNICAL STANDARDS FOR THE ATHLETIC TRAINING EDUCATION PROGRAM**

Students in the Athletic Training Education Program (ATEP) at Concordia University Wisconsin should have the stamina and strength to endure the rigors of athletic training. The technical standards in the ATEP are part of the admittance into the program and meet the expectations of the program's accrediting agency (Commission on the Accreditation of Athletic Training Education [CAATE]). The following abilities and expectations must be met by all students admitted to the ATEP. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program.

Applicants for selection to the Athletic Training Education Program must demonstrate:

1. Maintain CPR certification and be tested for tuberculosis annually while enrolled in the program.
2. Receive a physical prior to acceptance into the program; should include in the health history immunizations received i.e. hepatitis B, measles, mumps, rubella, tetanus, and diphtheria.
3. Possess the physical capacity to handle the day-to-day rigors of athletic training; i.e. physicals, evaluations, therapeutic exercise, weather extremes, sport camps, carrying water coolers and ice chests.

4. The ability to critically think and problem solve as it relates to the assessment of the injured and ill.
5. The ability to communicate effectively in both the verbal and in written form; i.e. awareness of and sensitivity to various cultures and social backgrounds, and documentation in medical records and forms.
6. Professional behavior while representing the ATEP; i.e. dress, attitude, communication, and collegiality.
7. The ability to act and react appropriately to various stressful and changing situations in athletic training.
8. A commitment to progress as sequenced and complete the Athletic Training Education Program.
9. A genuine concern for others associated with the ATEP and the patients served.
10. The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm.
11. Sufficient postural and neuromuscular control, sensory function and coordination, perform appropriate physical examinations using accepted techniques; and accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients.
12. The ability to record the physical examinations results and treatment plan clearly and accurately.
13. The ability to adjust to changing situations and uncertainty in clinical situations.
14. Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.
15. A respect for the LCMS doctrine and other religious beliefs.
16. Athletic training can be inherently dangerous when around athletic practices and events. Therefore, each athletic training student must carry health insurance in the case of any injuries that may occur.

Applicants to the ATEP will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards.

If a student determines he/she can meet the technical standards with accommodation, then the University will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes a review of whether or not the accommodations are reasonable, taking into account whether accommodation would jeopardize clinician/patient safety, or the educational process of the student or the institution, including all coursework, clinical experiences and internships deemed essential to graduation. A technical standards form will be read, understood, and signed by each applicant prior to acceptance into the Athletic Training Education Program.

## ATHLETIC TRAINING MAJOR

89 crs.

- |  |   |
|--|---|
| BIO 275 Principles of Anatomy & Physiology II — 4 crs.   | ** HHP 348 Palpatory Anatomy of the Human Body — 2 crs.                           |
| OR BIO 281 Anatomy & Physiology II or Functional Anatomy II — 4 crs. (PRE-PT only)   | * HHP 371 Exercise Physiology — 3 crs.  |
| BIO 285 Pathophysiology — 3 crs.   | ** HHP 372/374 Recognition & Evaluation of Athletic Injuries I with Lab — 4 crs.  |
| HHP 130 Adv. Weight Training — 2 crs.  | * HHP 373 Motor Development — 3 crs.  |
| HHP 171 Introduction to Exercise Science — 1 cr.   | * HHP 375 Biomechanics — 3 crs.   |
| HHP 205 First Aid & Emergency Procedures with Lab — 3 crs.   | ** HHP 376/378 Recognition & Evaluation of Athletic Injuries II with Lab — 3 crs. |
| ** HHP 265 Healthy Lifestyles — 3 crs.   | ** HHP 391 Athletic Training Practicum III — 3 crs.                               |
| ** HHP 272/273 Introduction to Athletic Training with Lab — 3 crs.   | ** HHP 392 Athletic Training Practicum IV — 3 crs.                                |
| * HHP 280 Psychology of Sport — 3 crs.   | ** HHP 403 Advanced Injury Management — 2 crs.                                    |
| * HHP 289 Athletic Training Seminar — 1 cr. (total 6)<br>(taken consecutively for six semesters beginning in the fall semester of the sophomore year.) | ** HHP 408 Pharmacology & Ergogenic Aids — 3 crs.                                 |
| ** HHP 291 Athletic Training Practicum I — 3 crs.  | ** HHP 491 Athletic Training Practicum V — 3 crs.                                 |
| ** HHP 292 Athletic Training Practicum II — 3 crs.   | ** HHP 492 Athletic Training Practicum VI — 3 crs.                                |
| ** HHP 301/302 Rehabilitation of Athletic Injuries with Lab — 3 crs.   | ** HHP 493 Senior Seminar — 3 crs.  |
| ** HHP 303/304 Therapeutic Modalities with Lab — 3 crs.  | MATH 205 Statistics I — 3 crs.  |
| ** HHP 312 Administration and Organization of Athletic Training — 3 crs.   |   |
| ** HHP 330 Manual Muscle Testing — 2 crs.  |   |
| ** HHP 342 Nutrition for Wellness & Performance — 3 crs.   |   |
| * May transfer upon approval of Director of Athletic Training  |   |
| ** Cannot be transferred into program  |   |

## THE APPLICATION PROCESS

The Athletic Training Education Program is a selective program that accepts up to fifteen students each year. The model used is an 8:1 Certified Athletic Trainer/student ratio. This model will promote a very high level of educational quality and provide the student ample opportunities for hands-on learning. Students will formally apply to the Athletic Training Education Program in their freshman year/second semester. Freshman students will be exposed to the profession of Athletic Training and gain valuable experience in their first year.

Students with higher academic standing or transfer students may apply and will be given equal consideration, but must make a commitment to the Athletic Training Education Program of four years. These students will need to formally apply and go through the Athletic Training Education Program curriculum at Concordia University Wisconsin. Student athletes that are accepted into the Athletic Training Education Program will be limited to one sport, participating in that sport only during its traditional season.

## REQUIREMENTS FOR ADMISSION TO THE ATHLETIC TRAINING EDUCATION PROGRAM

During the first year at Concordia University Wisconsin each student must meet the following requirements to be considered for admission to the Athletic Training Education Program.

1. Complete HHP 171 Introduction to Exercise Science with a grade of a B (3.0) or higher.
2. Complete HHP 272/273 Introduction to Athletic Training with a grade of a B (3.0) or higher.
3. Complete HHP 205 First Aid & Emergency Procedures with a grade of a B (3.0) or higher.
4. Complete BIO 275 & 276 Principles of Anatomy and Physiology I & II (AT only) or BIO 280 & 281 Functional Anatomy I & II (Pre-PT only) with a grade of a C (2.0).
5. Earn a CGPA of 2.75 in all major course work.
6. Earn a CGPA of 2.50 in all course work.
7. Complete the Athletic Training Education Program application.
8. Submit two CUW ATEP student evaluation forms from two personal references. This will be measured objectively as described in the ATEP Handbook.
9. Submit a two-page essay on why you want to choose Athletic Training as a career. Submit with the Athletic Training Education Program application. This will be measured objectively as described in the ATEP Handbook.
10. Complete and pass all freshman year competencies & proficiencies.
11. Interview with the Admissions Selection Committee.
12. A physical exam is required as part of the admission process into the ATEP. The student and examining physician must understand the technical standards associated with the ATEP. The physical sign-off form must be signed by the examining physician.

The above criteria will be used for admittance to the Athletic Training Education Program (ATEP). The Admission Selection Committee will be comprised of ATEP faculty, staff and CUW Admissions personnel. A final rating form for admission is used to objectively measure each applicant's admission criteria. Each admission criteria has a point value associated with it. In the event that more than 15 applicants meet the above requirements, those applicants with the highest point total will be accepted into the ATEP. In the event that there are students with the same point total, the student with the higher CGPA in major coursework will be admitted. Students will be notified of their acceptance status in a timely manner after their second semester and will begin their athletic training experience in earnest shortly afterward.

## PROBATIONARY POLICY

- I. Prospective athletic training students
  - A. Any prospective student who does not meet all the required admission standards may be accepted on a probationary status if all of the ATEP positions are not filled by other prospective students who meet all the required admission standards.
  - B. Any prospective student who is accepted on a probationary status must improve upon the deficient admission standard(s) within the following semester of being accepted into the ATEP on a probationary status.
  - C. If a prospective student is placed on probationary status entering the ATEP and does not improve towards meeting the required admissions standards within the following semester, that student will be terminated from the ATEP.
- II. Current athletic training students
  - A. Any current student who fails to meet the retention standards will be put on a probationary status.
  - B. If a current student is on probationary status and fails to improve towards the deficient retention standard(s) within the following semester, that student will then be terminated from the ATEP.
  - C. If a student has been on probation and then meets the retention requirements, he/she will be removed from probation and then fails to maintain retention requirements a second time, such student will be terminated from the ATEP without the opportunity to reapply.

## RETENTION POLICY

1. Maintain a Cumulative Grade Point Average (CGPA) of 2.75 in major course work.
  2. Maintain a CGPA of 2.50 in all course work.
  3. Make satisfactory progress toward fulfillment of all clinical competencies and psychomotor proficiencies.
  4. Maintain scheduled hours every semester.
  5. Subjective personal characteristics will be taken into consideration (i.e. respect, responsibility, honesty, etc.)
  6. Must follow all ATEP Policies and Procedures.
- If a student fails to maintain a CGPA of 2.50 in all course work or a CGPA of 2.75 in major course work, that student will be placed on probation and have the following semester to raise/improve the CGPA's towards the required levels. If the student fails to meet this requirement after any semester he/she forfeits their spot and will be terminated from the ATEP. If such students fails to raise/improve CGPA towards the required CGPA's and is terminated from the ATEP this student can have one year to retake courses and raise the required CGPA(s) to the required level (while terminated). If such student meets the required CGPA(s) this student will have the opportunity to join the class she/he is currently taking classes with.

## GRADUATION REQUIREMENTS

Concordia University confers the degree of Bachelor of Arts, Bachelor of Science or Bachelor of Social Work on a student in good character who must have met all the requirements listed here:

1. Accumulated a cumulative grade point average of 2.00 or better for all credited work completed at Concordia (university standard). The Athletic Training Education Program has a 2.50 cumulative grade point average for all credited work and 2.75 for all credited work in the major completed at Concordia.



2. Earned a minimum of 36 semester credits of academic work on campus at least 12 of which should be in the major and have spent the last two semesters in residence including the one immediately prior to graduation. Residence is defined as registration for course work (university standard). The Athletic Training Education Program requires each student to register for all athletic training courses (89 credits) at Concordia as a minimum.
3. Filed application for candidacy before registering for the final semester.
4. Met all financial obligations to the University.
5. Every candidate is expected to attend graduation exercises. Requests for excuse in extenuating circumstances should be directed to the Registrars office.

### PERSONAL TRANSPORTATION POLICY

1. Each Athletic Training Student who is assigned an off-campus clinical field experience/rotation will need to provide personal transportation to and from the off-campus site.
2. The Athletic Training Student will be responsible for their gas and car maintenance for this purpose.
3. There is not any reimbursement for gas or mileage.
4. The Athletic Training Student will not have to have personal transportation their freshman year.
5. Please discuss with the clinical coordinator when your off-campus clinical rotation(s) will occur.

### TRANSFER STUDENT ADMISSION POLICY

Students with higher academic standing or transfer students may apply into the athletic training education program and will be given equal consideration. Each student must make a commitment to the Athletic Training Education Program (ATEP) of seven semesters. These students will need to formally apply and go through the Athletic Training Education Program curriculum at Concordia University Wisconsin.

Transfer students may have a varied degree of credits applicable for transfer into Concordia University Wisconsin. Each case is unique and must be looked at individually to determine the length of time and courses a transfer student will need. If a transfer student is applying and has not been in an athletic training program the minimum time required for our program is seven semesters and may be eight (depending on courses previously taken). These students must take all of the required athletic training education program courses.

Transfer students applying from another athletic training education program may have athletic training courses transfer but must meet specific criteria. These athletic training courses must meet our course content and the clinical competency/proficiency requirement for each course. Documentation of all competencies and proficiencies must be provided. In addition, learning over time must be shown through assessment of the previous ATEP. Each case is unique and will be reviewed to determine if transferring is a viable option.

Please review the university transfer policy in the Concordia University Catalog regarding university requirements.

### THEOLOGICAL LANGUAGES MAJOR

33 crs.

*Two of the language courses below are counted in the core, not in the major*

GER/LAT Language Elective I	GRK 401	Luke & Septuagint
GER/LAT Language Elective II (Second semester of Language Elective I)	GRK 402	NT & Septuagint
GRK 201 Greek I	HEB 301	Hebrew I
GRK 202 Greek II	HEB 302	Hebrew II
GRK 303 Greek III	HEB 401	Hebrew III
GRK 304 Greek IV	HEB 402	Hebrew IV
	REL 203	New Testament

### THEOLOGICAL LANGUAGES MINOR AND MAJOR

**Core:** REL 201 Old Testament  
REL 204 Biblical Theology  
REL XXX Theology Elective

### THEOLOGICAL LANGUAGES MINOR

21 crs.

Must include at least 18 credits of languages from the theological languages major in addition to the 3 credits of REL 203 New Testament (in addition to a further 6 language credits needed for the core). Students are encouraged to complete two full years of Greek and two full years of Hebrew. If a student cannot complete the two years of Greek and Hebrew successfully, other language courses from the list below can be used to fulfill the 21 required credits for this minor.

### THEOLOGY MINOR AND MAJOR:

**Church-Work Core:** REL 201 Old Testament — 3 crs.  
REL 204 Biblical Theology — 3 crs.  
REL XXX Theology Elective — 3 crs.



**THEOLOGY MINOR****Required in Program:**

REL 203 New Testament — 3 cr.  
 Theology/Philosophy Elective — 3 cr.  
 REL 404 Lutheran Confessions  
 (for all church-work students) **OR**  
 REL 347 Law and Gospel in Life of Church **OR**  
 REL 333 What Is Truth? **OR**  
 PHIL 325 Christian Apologetics **OR**  
 PHIL 334 Christ and Culture  
 Office of Church Worker Elective — 3 cr.  
 REL 312 Office of Professional Church Worker **OR**  
 ED 411 Professional Ethics (for education students)  
 Internship Elective — 3 cr.  
 REL 420 Lay Ministry Internship **OR**  
 ED XXX Student Teaching (for education students)  
 Religious Education Elective — 3 cr.  
 REL 229 Religious Education of Youth and Adults **OR**  
 REL 233 Communicating Bible Messages **OR**  
 ED 306 Teaching the Faith **OR**

ED 316 Teaching the Faith for the  
 Christian Public Educator **OR**  
 ED 362 Faith Development of Young Child  
 Comparative Religion Elective — 3 cr.  
 REL 388 Varieties of Belief (TEE) **OR**  
 REL 310 Religion in America **OR**  
 REL 410 World Religions  
**Total: Church Work Core + 18 cr.**

**THEOLOGY MAJOR****Required in addition to the courses required for the minor:**

REL XXX Theology Elective in Outreach  
 (i.e., evangelism, missions) — 3 cr.  
 REL XXX Theology Elective in Bible I  
 (i.e., upper-level course on biblical book) — 3 cr.  
 REL XXX Theology Elective in Bible II  
 (i.e., upper-level course on biblical book) — 3 cr.  
 REL 221 Lutheran Worship — 3 cr.  
**Total: Theology Minor + 12 cr.**

**WOMEN'S STUDIES MINOR****Required:**

WST 101 Introduction to Women's Studies — 3 crs.

**Electives: Choose 18 crs.**

COMM 354 Gender and Communication — 3 crs.  
 ENG 370 Women's Literature — 3 crs.  
 HIST 464 Women in America — 3 crs.  
 HHP 414 Women in Sport — 3 crs.

POLS 491 Special Topics: Women in Politics — 3 crs.  
 PSY 312 Marriage and the Family — 3 crs.  
 PSY 340 Sex Role Development — 3 crs.  
 REL 357 Women in the Church — 3 crs.  
 SOC 203 Contemporary Social Problems — 3 crs.  
 SOC 343 Women's Health — 3 crs.  
 WST 465 Special Topics in Women's Studies — 3 crs.

**21 crs.****YOUTH MINISTRY MINOR**

The Youth Ministry Minor equips students to minister to the faith needs of young people. Youth Ministry Minors receive training to administer youth ministry programs in a variety of settings, or to serve in any number of support capacities for youth ministry within a congregation. The Youth Ministry Minor is not restricted to students enrolled in professional church work programs. Students who are majoring in other fields of study and desire to be of service to youth through their congregation youth programs are encouraged to enroll. The Youth Ministry Minor consists of 23 credits hours. For more information contact the Assistant Director for Lay Ministry.

**Church-Work Core:**

REL 201 Old Testament — 3 cr.  
 REL 204 Biblical Theology — 3 cr.  
 REL XXX Theology Elective — 3 cr.

**Required in Program:**

COMM 201 Interpersonal Communication — 3 cr.  
 HHP 209 First Aid and CPR — 2 cr.  
 PSY 222 Adolescent Development  
 (prerequisite PSY 101) — 3 cr.

REL 203 New Testament — 3 cr. (may be double-dipped  
 with requirement in church work program)  
 REL 227 Youth Ministry I — 3 cr.  
 REL 229 Religious Education of Youth and Adults — 3 cr.  
 (Lutheran teachers who have taken ED 306 may take an  
 outreach elective instead)  
 REL 245 Ministry Practicum (in youth ministry) — 3 cr.  
 REL 327 Youth Ministry II — 3 cr.  
**Total: Church Work Core + 23 cr.**

**23 crs.****SCHOOL OF BUSINESS AND LEGAL STUDIES**

The two divisions therein are the Business Division and the Legal Studies Division. In addition, two associate degree programs and a special cooperative program exist.

Core Requirements	Course	Credits	Business	JPP
Theology - 9 crs	REL 100 The Bible as Literature	3	*	*
Common core	REL 110 Intro to Christian Theology	3	*	*
	Theology Elective	3	**	**
Philosophical Foundations - 3 crs Narrative Core	LA 105 Higher Education: A New Experience	3	*	*

Core Requirements	Course	Credits	Business	JPP
Literature - 3 crs Common Core	ENG 103 Civilization & Worldviews - Literature	3	*	*
History - 3 crs. Common Core	HIST 103 Civilization & Worldviews - History	3	*	*
Creative Arts - 3 crs Distributive Core	Choose an approved Art, Music or Theatre course	3	**	**
Culture - 3 Crs Narrative Core	Choose an approved Culture Course	3	**	**
Language - 3 crs Distributive Core	Choose an approved Language Course	3	**	**
Social Sciences -3 crs Distributive Core	PSY 101 General Psychology	3	*	*
Citizenship - 3 crs Narrative Core	ECON 222 Macroeconomics JPP 101 American Government	3	*	*
Science - 4 crs Distributive Core	Choose an approved Science course with lab	4	**	**
Writing - 3 crs Common Core	ENG 104 Introduction to Writing	3	*	*
Communications - 3 crs Narrative Core	COMM 201 Interpersonal Comm.	3	*	*
Mathematics - 3 crs Distributive Core	BUS 315 Business Statistics MATH 125 Contemporary Mathematics	3 3	*	*
Phys. Education - 2 crs Distributive Core	HHP 100 Introduction to Lifetime Fitness HHP Activity Course	1 1	* **	* **
<b>TOTAL</b>		<b>48</b>		

\* = specific course required    \*\* = choice of course from approved list

## THE BUSINESS DIVISION

**SUGGESTED FIRST YEAR PROGRAM** First year business majors are advised to enroll in the following courses:

FALL			SPRING		
BUS 130	Principles of Management	3	ACCT 101	Accounting Principles I	3
CSC 150	Intro to Computer Science	3	REL 100	The Bible	3
ENG 104	Introduction to Writing	3	COMM 201	Interpersonal Communication	3
MKTG 131	Principles of Marketing	3	ENG 103	Civilization and WorldView-Lit	3
LA 105	Higher Ed, New Experience	3	HHP 100	Intro to Lifetime Fitness	1
			PSY 101	General Psychology	3

### Program Objective

Concordia University prepares students to assume effective and responsible leadership roles in organizations or related professional activities. A three part curriculum is required to accomplish this goal (Bachelor of Science in Business).

First, the liberal arts core provides students with the intellectual and self knowledge skills to understand themselves and their dynamic world. Students learn to communicate and develop an understanding of the religious, cultural, social, economic, international, and technical environments in which individuals and organizations will exist in the future. By taking courses in religion and ethics, students develop a Christian value system for dealing conscientiously with their various publics.

The second part of the curriculum is the business common body-of-knowledge required of all business division graduates. This core provides students with an understanding of the dynamics of the firm, introduction to the functional areas of the organization, basic managerial and organizational concepts, and an overall view of policy making. The qualitative and quantitative nature of this common-core enables students to develop their critical and analytical skills.

The third section of the curriculum provides students an opportunity to concentrate and obtain sufficient competence and skill to experience the joy of useful work and contribute to church and community in a profession or vocation. Only accredited transfer credits from NCA or Equivalent Accredited Institutions will be accepted.

I.	<b>THE CORE CURRICULUM</b>	<b>48 credits</b>	
II.	<b>BUSINESS CORE</b>	<b>MAJOR (54 crs.)</b>	<b>MINOR (24 crs.)</b>
	ACCT 101 Accounting Principles I	3	3
	ACCT 102 Accounting Principles II	3	3
	ACCT 223 Managerial/Cost Accounting	3	
	BUS 130 Principles of Management	3	
	BUS 210 Business Law I	3	3
	BUS 310 Business Law II and Ethics*	3	3
	<i>BUS 315 Business Statistics</i>	<i>3 (counted in University Core)</i>	
	BUS 336 Human Resource Management <b>OR</b>		
	BUS 340 Organizational Behavior	3	3
	BUS 355 Management Information System	3	
	BUS 399 Internship	3	
	BUS 450 International Business	3	
	BUS 453 Business Policy	3	
	CSC 150 Foundations of Computer Science	3	3
	ECON 231 Micro Economics	3	3
	<i>COMM 201 Interpersonal Communication</i>	<i>3 (counted in University Core)</i>	
	FIN 300 Principles of Finance	3	
	BUS 315 Business Statistics*	3	
	MKTG 131 Principles of Marketing	3	3
	LA 105 Higher Ed. New Exp.	3	
	BUS_____ Business Elective	3	

\* = Core Curriculum Requirement

The specific majors and minors follow:

III.	<b>ACCOUNTING MAJOR CONCENTRATION</b>			<b>150-Hour CPA Track (60 crs)</b>	<b>Non-CPA track (21 crs)</b>
	ACCT 210 Cost Accounting			3	3
	ACCT 310 Intermediate Accounting I			3	3
	ACCT 311 Intermediate Accounting II			3	3
	ACCT 330 Advanced Accounting			3	3
	ACCT 350 Income Tax I			3	3
	ACCT 360 Income Tax II			3	3
	ACCT 398 Current Issues in Accounting			3	
	ACCT 420 Auditing			3	3
	ACCT XXX Advanced Accounting II (Mergers/Acquisitions)			3	
	MBA XXX NFP/Governmental Acct			3	
	MBA 530 Corporate Finance			3	
	MBA 575 Business Ethics			3	
	MBA 576 Fraud Management			3	
	MBA 580 Leadership/Organizational Behavior			3	
	MBA 590 Strategic Management			3	
	MBA 621 Financial Institutions			3	
	MBA 622 Risk Management			3	
	MBA 623 Statutory Accounting			3	
	MBA 625 Securities Analysis			3	
	MBA 626 Portfolio Management			3	

  

III.	<b>ACCOUNTING MINOR CONCENTRATION</b>	<b>(27 crs)</b>	III.	<b>ACTUARIAL SCIENCE CONCENTRATION</b>	<b>Major (40 crs)</b>
	ACCT 101 Accounting Principles I	3		CSC 175 Advanced Software Application	3
	ACCT 102 Accounting Principles II	3		FIN 310 Basic Investing	3
	ACCT 210 Cost Accounting	3		FIN 315 Insurance Principles/Practices	3
	ACCT 310 Intermediate Accounting I	3		FIN 321 Theory of Interest	3
	ACCT 311 Intermediate Accounting II	3		FIN 340 Corporate Finance	3
	ACCT 330 Advanced Accounting I	3		LEGL 221 Corporate Law	3
	ACCT 420 Auditing	3		MATH 201 Calculus I	4
	ACCT 350 Income Tax I	3		MATH 202 Calculus II	4
	ACCT 360 Income Tax II	3		MATH 203 Calculus III	4
				MATH 205 Statistics I	3
				MATH 305 Statistics II	3
				MATH 325 Linear Algebra/Equations	4

<b>III. ECONOMICS CONCENTRATIONS</b>	<b>Major (24 crs)</b>	<b>Minor (18 crs)</b>
ECON 222 Macroeconomics	3	3
ECON 231 Microeconomics	3	3
ECON 320 Money and Banking	3	
ECON 322 Intermediate Macroeconomics	3	3
ECON 331 Intermediate Microeconomics	3	3
FIN 430 International Finance	3	
Economics Electives	3	6

<b>III. FINANCE CONCENTRATIONS</b>	<b>Major (24 crs)</b>	<b>Minor (21 crs)</b>
BUS 130 Principles of Management		3
FIN 300 Principles of Finance	3	3
FIN 310 Basic Investing	3	3
FIN 315 Intro. to Insurance	3	3
FIN 320 Money and Banking	3	3
FIN 340 Corporate Finance	3	3
FIN 430 International Finance	3	3
ECON 370 International Economics	3	
BUS ___ Business Elective	3	

**III. GENERAL BUSINESS MAJOR CONCENTRATION**

This major requires a minimum of BUS 399 and 9 credits of Business electives plus 12 credits Liberal Art electives. An appropriate internship is required as part of the major.

<b>III. INTERNATIONAL BUSINESS MAJOR CONCENTRATION</b>	<b>(35 crs)</b>
ECON 370 International Economics	3
MKTG 440 International Marketing	3
Foreign Languages	17
Semester Abroad (International Business Emphasis)	12

<b>III. MANAGEMENT MAJOR CONCENTRATION</b>	<b>(21 crs)</b>
BUS 360 Small Business Administration	3
ECON 370 International Economics	3
FIN 310 Basic Investing	3
FIN 315 Introduction to Insurance	3
MKTG 223 Public Relations	3
MKTG 325 Promotion and Advertising	3
MKTG 422 Marketing Management	3

**III. MARKETING MAJOR CONCENTRATION**

	<b>Major (21 crs)</b>		<b>Minor (18 crs)</b>
MKTG 422 Marketing Management	3	BUS 130 Principles of Management	3
		MKTG 131 Principles of Marketing	3
<b>PLUS 5 of the following courses:</b>		MKTG 422 Marketing Management	3
MKTG 223 Public Relations	3		
MKTG 304 Retail Management	3	<b>PLUS 3 of the following courses:</b>	
MKTG 325 Promotions & Advertising	3	MKTG 223 Public Relations	3
MKTG 345 E-Commerce	3	MKTG 304 Retail Management	3
MKTG 426 Marketing Research	3	MKTG 325 Promotions & Advertising	3
MKTG 440 International Marketing	3	MKTG 345 E-Commerce	3
		MKTG 426 Marketing Research	3
		MKTG 440 International Marketing	3

All Business majors must complete all listed degree requirements and earn a minimum total of 126 credits to graduate. Both the cumulative grade point average and the average for all Business courses attempted must be 2.0 or above.

## MINOR CONCENTRATION IN LEGAL STUDIES

The minor in legal studies is designed primarily for students in business, education, and criminal justice who increasingly find themselves subject to various laws and government regulations. A basic knowledge of these laws is beneficial, if not essential, for anyone seeking a career in these areas. The legal studies minor also provides an excellent background in law and legal reasoning for those students contemplating law school after graduation from Concordia. The minor provides a good foundation for graduate law studies along with courses in English, history, philosophy, political science, criminal justice and languages. Students may partially customize their course of study to reflect their interests in different legal topics.

Students must take the following courses to complete the minor concentration in legal studies:

JPP 101 American Government	3	LEGL 331 Administrative Law <b>OR</b>	
BUS 210 Business Law I	3	LEGL 230 Environmental Law	3
BUS 310 Business Law II	3	LEGL 221 Corporate Law <b>OR</b>	
LEGL 359/POLS 359 Constitutional Law	3	JPP 308 Procedural Criminal Law	3

## CRIMINAL JUSTICE AND PUBLIC POLICY MAJOR

Concordia offers students interested in being a positive influence in making the world a safer and non-violent place to live, the opportunity to explore the exciting study of crime causation, criminal law, public policy and the justice system.

Graduation from the program will lead to challenging and rewarding careers in law enforcement, criminal investigations, security management, custodial and community based corrections, intelligence operations, probation and parole and court administration. It will also provide an outstanding foundation for future study at graduate or law school.

Credits necessary for completion equal 126 credit hours. Core curriculum requires the satisfactory completion of 48 credits. The major consists of 39 credits. The Criminal Justice and Public Policy program does not require a minor.

### I. THE CORE CURRICULUM: 48 credits

### II. THE MAJOR: 39 actual credits

JPP 101 American Government	3 ( <i>counted in University Core</i> )	JPP 214 Criminal Investigations	3
JPP 102 Intro to Law Enforcement	3	JPP 308 Procedural Criminal Law+	3
JPP 103 Criminology	3	JPP 310 Administration of Justice	3
JPP 104 Intro to Courts	3	JPP 311 Criminal Psychology	3
JPP 110 Juvenile Theory+	3	JPP 415 Ethics in Criminal Justice+	3
JPP 206 Intro to Corrections	3	JPP 416 Careers in Criminal Justice+	3
JPP 207 Substantive Criminal Law	3	JPP/LEGL____JPP or LEGL Elective	3

+Denotes classes which are offered every other year.

### III. OPTIONAL SPECIALIZATION 39 credits

Criminal Justice and Public Policy students have nine areas of concentration from which to choose, in addition to the General Criminal Justice and Public Policy course of instruction, which is option 1.

Note: to graduate a student must successfully complete 126 credits.

- Option 1: General Option – Criminal Justice and Public Policy Major and elective credits.
- Option 2: Corrections Option - Criminal Justice and Public Policy Major and specific Social Science electives.
- Option 3: Department of Natural Resources Warden Option - Criminal Justice and Public Policy Major and specific Science electives.
- Option 4: Forensic Science Option - Criminal Justice and Public Policy Major and specific Science electives.
- Option 5: Law Enforcement Option - Criminal Justice and Public Policy Major, State Law Enforcement Training Academy, and 6 credit Law Enforcement Internship.
- Option 6: Military Police/Military Intelligence Option - Criminal Justice and Public Policy Major, and Military Science Minor.
- Option 7: Legal Studies Option- Criminal Justice and Public Policy Major and Legal Studies Minor concentration.
- Option 8: Security Management Option - Criminal Justice and Public Policy Major, specific Business School electives and 3 credit Security Internship.
- Option 9: Special Agent Option - Criminal Justice and Public Policy Major, Accounting Minor, and JPP 414.

## SCHOOL OF EDUCATION

The Teacher Education Program at Concordia University Wisconsin prepares teachers to help their students to develop in mind, body, and spirit for service to Christ in the Church and the world.

### TEACHER EDUCATION PROGRAMS

#### LUTHERAN TEACHING MINISTRY WISCONSIN PUBLIC EDUCATION

Concordia University offers strong programs for preparing teachers for Lutheran, public, and private education. All teacher education programs are approved by the Wisconsin Department of Public Instruction. Successful completion of one of Concordia's teacher education programs enables graduates to be eligible for a Wisconsin teaching license. Students who are members of The Lutheran Church – Missouri Synod and are preparing for the teaching ministry of the LCMS will receive a Lutheran Teaching Certificate. In addition, Concordia offers a Christian Public educator program which prepares individuals for a teaching ministry in a Christian or public school setting.

Programs are available leading to licensure in Early Childhood Education (Birth to Grade 3), Elementary/Middle Education Grades 1-8 (Middle Childhood through Early Adolescence), Secondary Education Grades 6-12 (Early Adolescence through Adolescence, as well as K-12 education (Early Childhood through Adolescence) in certain subject areas. The Secondary education program requires a licensable subject area major. The Elementary /Middle School program requires an additional subject area minor, and the Early Childhood program requires an additional minor or concentration. In addition, K-12 programs are available in Art Education, Business Education, General/Choral Music, German, Instrumental Music, Physical Education, and Spanish.

Undergraduate admission is processed through the Admissions Department. For individuals who have already completed a baccalaureate degree, a program leading to licensure in one of the above areas is also available. Students who have acquired a Bachelors' degree and now want to earn a Wisconsin license must contact the Graduate Education Office.

#### Application to the School of Education

Students must apply for initial admission to the School of Education. Application to the School of Education typically occurs after the successful completion of ED 102 Foundations of Education. Students who wish to be admitted to the School of Education shall meet the following requirements:

1. Successfully completed ED 102 Foundations of Education
2. Portfolio I presentation approved
3. Recommended by faculty advisor
4. Confidential background verification form with criminal background check
5. Submitted School of Education Admission application to the School of Education

#### Application for Entry into the Teacher Education Program (Upper Division Status)

Since education is a demanding profession in regard to talents, personality, knowledge, teaching skills, and Christian example, it is important that only the most highly qualified students, who demonstrate the highest potential for professional success, be admitted to the Teacher Education Program. For these reasons, the following criteria have been established to receive Upper Division Status and acceptance into the program. (Application is generally made in the second semester of the sophomore year.)

1. Successful completion of a minimum of 45 semester hours of credit;
2. GPA of 2.5 on a 4.0 scale;
3. Successful completion of Praxis I (PPST) Test;
4. Successful completion of General, Multicultural, and Special Education Clinical Experiences;
5. Successful completion of Portfolio I and II
6. Confidential background verification form with criminal background check
7. Submission of completed UDS Application Form
8. Two successful portfolio presentations.

NOTE: To maintain Upper Division Status, a student must maintain at least a 2.5 GPA. In addition, a GPA of 2.75 is required for both student teaching and a Wisconsin Teaching License.

NOTE: Check with the Education Office for timely information on additional requirements for completing the Wisconsin teacher license program.

#### Acceptance Procedure:

1. Notification of acceptance or non-acceptance into the program will be made by letter.
2. A copy of this letter is filed in the applicant's folder in the Teacher Education Office.



**Wisconsin Licensure**

To successfully complete the teacher education program and be recommended for a Wisconsin teaching license, the undergraduate candidate must have:

1. met the university credit requirements
  - a. Minimum of 126 college credits.
  - b. Minimum of 36 credits at Concordia University Wisconsin.
  - c. Minimum of 20 education credits at Concordia University Wisconsin.
2. earned a minimum of 2.75 GPA for all college credits.
3. met course requirements for the appropriate education program.
4. received full upper division status
5. met all Wisconsin Department of Public Instruction requirements.
6. been recommended by the Education Division faculty to receive the appropriate teaching license.
7. passed a Praxis II content test in teaching major(s) (early childhood education, elementary/middle school education, subject areas for secondary and K-12 education) as well as teaching minor(s) when applicable.
8. (if Lutheran Education emphasis) taken the required theology courses and received the recommendation of the Concordia University faculty for teaching in schools of the Lutheran Church-Missouri Synod.

**EARLY CHILDHOOD PROGRAM**

*Birth to Age 8*

CORE CURRICULUM:	55 crs.	PUBLIC ED MAJOR:	66 crs.
LUTHERAN/CHRISTIAN PUBLIC ED MAJOR:	75 crs.	CONCENTRATION/MINOR:	18-21 crs.
			TOTAL 139-151 crs.

NOTE: Check with the Chair of the Early Childhood Education Department for possible changes in this major.

**I. CORE CURRICULUM**

**55 credits**

*Common Core – 15 credits*

Theology (Lutheran and Christian Public Education Emphasis)	
REL 201 Old Testament	
REL 204 Biblical Theology OR	
Theology (Public Education Emphasis)	
REL 100 The Bible	
REL 110 Christian Faith	6
History: HIST 103 Civilization & Worldviews: History	
Literature: ENG 103 Civilization & Worldviews: Literature	3
Writing: ENG 104 Introduction to Writing	3

Mathematics: MATH 119 Number Sense: Teaching PreK-9	3
Mathematics: MATH 120 Data and Space: Teaching PreK-9	3
Physical Development: HHP 100 Intro to Lifetime Fitness	1
Physical Development Activity Course	1
Life Science with lab: SCI 150 Life Science	4
Physical Science with lab: SCI 155 Physical Science	4
Social Science: PSY 221 Child Development	3
Theology Elective	3

*Narrative Core – 12 credits*

Citizenship: POLS 201	
American Government	3
Communications: COMM 105	
Public Speaking or COMM 201	
Interpersonal Communication	3
Culture:	
ED 103 Human Relations	3
Philosophical Foundations:	
ED 102 Foundations of Education	3

*Elective Core – 28 credits*

Creative Arts: ART 151 Intro. to Studio Art or ART 110 or 141	3
Language: Non-Western Language, Non-Western History, or Non-Western Contemporary Culture	3

**II. EARLY CHILDHOOD MAJOR**

**66-75 crs.**

*Theoretical Component – 14 credits*

ED 203 Educational Technologies	1
ED 230 Nature of the Exceptional Child	3
ED 231 Children’s Literature	3
ED 275 Human Learning	3
*ED 409 Instructional Technologies	1
*ED 411 Professional Ethics	3

*Practical Component – 36 credits*

ED 204 Developmental Reading Gr. K-9	4
*ED 327 Working with Children with Disabilities and their Families	3
*ED 354 Language Arts in Early Childhood	3
*ED 355 Music in Early Childhood	2
*ED 356 Mathematics in Early Childhood	3
*ED 357 Curr. & Methods in Science & Environment – E. Ch.	3
*ED 358 Language Development & Early Literacy	3

*ED 359 Curriculum & Techniques – Early Childhood I	3
*ED 461 Administration of Early Childhood Programs	1
*ED 465 Curriculum & Techniques – Early Childhood II	3
*ED 466 Health & Wellness 0-8 Years	1
*ED 467 Art in Early Childhood	2
*ED 479 Assessment and Instruction for Children with Special Needs	3
*HHP 428 Movement Skills in Early Childhood	2
HHP 209 First Aid & CPR	2
*ED 343 Synthesis and Prof. Development (Portfolio Completion) – Early Childhood	1

**Experiential Component – 15 credits**  
(For Clinical Experiences, register for ED 100.)

ED 100 (211) General Clinical I Experience	1
ED 100 (212) Multicultural Clinical II Experience	1
ED 100 (213) Special Education Clinical III Experience	1
*ED 427, ED 428, ED 460 Student Teaching	12

**Lutheran (LCMS Members) Education Requirements – 9 credits**

REL 203 New Testament	3
REL 404 Lutheran Confessions	3
*ED 362 Faith Development of Young Child	3

**Christian Public Education Requirements – 9 credits**

REL 203 New Testament	3
REL 404, REL 347, REL 333, PHIL 325 OR PHIL 334	3
*ED 316 Teaching the Faith for the Christian Public Educator	3

*\* Course Requires Upper Division Status*

**III. MINORS OR AREAS OF CONCENTRATION**

**18-21 credits**

The following minors, (approximately 21 credits) are acceptable. See the Elementary/Middle Education section for details.

Adaptive Education	Computer Science	German	Psychology
Athletic Coaching	English/Language Arts	Health Education	Science Education
Biology	English as Second Language	History	Spanish
Broad Field Social Studies	Environmental Science	Mathematics	Speech Communication

Concentrations (18 credits) in Administration in Early Childhood, Creative Arts (art, music, theatre), Family Studies, and Language Arts are available. Consult the Chairperson of the Early Childhood Department or your advisor. In addition, non-licensable minors are available in Art, Music, and Theology.

**ELEMENTARY/MIDDLE EDUCATION PROGRAM**

**(GRADES 1-8)** *Middle Childhood through Early Adolescence*

CORE CURRICULUM:	55 credits	PUBLIC ED MAJOR:	60 credits
LUTHERAN/CHRISTIAN PUBLIC ED MAJOR:	69 credits	MINOR SUBJECT AREA:	20 - <u>21 credits</u> 135 - 145 credits

NOTE: Check with the Chair of the Elementary/Middle Education Department for possible changes in the major.

**I. CORE CURRICULUM**

**55 credits**

**Common Core – 15 credits**

Theology (Lutheran and Christian Public Education Emphasis)	
REL 201 Old Testament	
REL 204 Biblical Theology OR	
Theology (Public Education Emphasis)	
REL 100 The Bible	
REL 110 Christian Faith	6
History: HIST 103 Civilization & Worldviews: History	3
Literature: ENG 103 Civilization & Worldviews: Literature	3
Writing: ENG 104 Introduction to Writing	3
<b>Narrative Core – 12 credits</b>	
Citizenship: POLS 201 American Government	3
Communications: COMM 105 Public Speaking or COMM 201 Interpersonal Communication	3
Culture: ED 103 Human Relations	3
Philosophical Foundations: ED 102 Foundations of Education	3

**Elective Core – 28 credits**

Creative Arts: ART 151 Art Fundamentals	3
Language: Non-Western Language, Non-Western History, or Non-Western Contemporary Culture	3
Mathematics: MATH 119 Number Sense: Teaching PreK-9	3
Mathematics: MATH 120 Data and Space: Teaching PreK-9	3
Physical Development: HHP 100 Intro to Lifetime Fitness	1
Physical Development Activity Course	1
Life Science with lab: SCI 150 Life Science	4
Physical Science with lab: SCI 155 Physical Science	4
Social Science: PSY 221 Child Development	3
Theology Elective	3

**II. ELEMENTARY/MIDDLE EDUCATION MAJOR**

**60-69 credits**

**Theoretical Component – 17 credits**

ED 202 Music for Elementary Teachers	3
ED 203 Educational Technologies	1
ED 230 Nature of the Exceptional Child	3
ED 231 Children’s Literature	3
ED 275 Human Learning	3
*ED 409 Instructional Technologies	1
*ED 411 Professional Ethics	3

**Practical Component – 28 credits**

ED 204 Developmental Reading Gr. K-9	4
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**“THE BLOCK”**

Take these courses during the same semester:

*ED 301 Analysis of Classroom Practice - Elementary/Middle	3
*ED 303 Curriculum & Methods in Language Arts	3
*ED 304 Curriculum & Methods in Mathematics	3
*ED 305 Curriculum & Methods in Science & Environment	3
*ED 407 Curriculum & Methods in Social Studies	3

*ED 350 Teaching in the Middle School	3
*ED 401 Reading Strategies in the Classroom	2
*ED 402 Curriculum & Methods in Art	1
*ED 404 Curriculum & Methods in Physical Education	1
*ED 405 Curriculum & Methods in Health	1
*ED 412 Portfolio Completion — Elementary	1

**Experiential Component – 15 credits**

(For Clinicals, register for ED 100.)	
ED 100 (211) General Clinical I Experience	1
ED 100 (212) Multicultural Clinical II Experience	1
ED 100 (213) Special Education Clinical III Experience	1
*ED 421 & ED 422 Student Teaching	12

**Lutheran (LCMS Members) Education Requirements – 9 credits**

REL 203 New Testament	3
REL 404 Lutheran Confessions	3
*ED 316 Teaching the Faith for the Christian Public Educator	3
<i>*Course Requires Upper Division Status</i>	

**III. LICENSABLE SUBJECT AREA MINORS – approx. 21 credits**

**Elementary/Middle Education (Grades 1-8)  
Middle Childhood through Early Adolescence**

For Wisconsin Teacher Certification, select one of the following licensable minors:

<b><u>Strongly Encouraged</u></b>	<b><u>Other Licensable Minors</u></b>
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*English/Language Arts	Biology
*Mathematics	Environmental Science
*Social Studies - Broad Field	History
*Science Education	Speech Communication

Licensable Minors that will require an additional content test:

Computer Science	+German
+Spanish	+English as a Second Language

Acceptable for Teaching of Middle Childhood (Grades 1-6)

<b><u>Licensable Minors</u></b>	<b><u>Non-Licensable</u></b>
Adaptive Education	Art
Athletic Coaching	Music
Psychology	

\*The subject area test for the Elementary/Middle Education major will include: English/language arts, mathematics, science, and social studies. Students with minors in those subject areas will not be required to take an additional test.

+ Licensable minors in these areas require an additional Praxis II content knowledge examination.

NOTE: Since most middle schools are departmentalized, students are encouraged to select a minor for the subject area that they would prefer to teach in a middle school setting.

**ADAPTIVE EDUCATION MINOR**

**19 credits**

ED 327 Working with Children with Disabilities and their Families	3	ED 481 Language and Communication Disorders	3
ED 328 Environmental and Personal Strategies for Self-Management for Children with Disabilities	3	ED 484 Educational/Behavioral Management in Special Education	3
ED 479 Assessment and Instruction for Children with Special Needs	3	ED 487 Intervention Strategies in Special Education	3

**ATHLETIC COACHING MINOR**

**30 credits**

BIO 270 Human Anatomy & Physiology I	4	<i>Choose two of the following:</i>	
counts in core for SCI 150		HHP 281 Theory & Techniques of Coaching Softball	2
HHP 209 First Aid and CPR	2	HHP 282 Theory & Techniques of Coaching Basketball	2
HHP 272 Introduction to Athletic Training	3	HHP 284 Theory & Techniques of Coaching Football	2
HHP 275 Administration and Organization of Physical Education and Athletics	3	HHP 286 Theory & Techniques of Coaching Track & Field	2
HHP 280 Psychology of Sport	3	HHP 287 Theory & Techniques of Coaching Soccer	2
HHP 342 Nutrition for Wellness and Performance	3	HHP 288 Theory & Techniques of Coaching Volleyball	2
HHP 371 Exercise Physiology	3	HHP 375 Biomechanics	3
HHP 373 Motor Development	3		
HHP 490 Practicum in Coaching	2		

**BIOLOGY MINOR**

**20 credits**

SCI 150 Life Science (in Core)		BIO 244 Botany w/lab	4
BIO 146 Essentials of Anatomy & Physiology w/lab	4	BIO 256 Environmental Science w/lab OR	
BIO 240 Zoology w/lab	4	BIO 410 Ecology w/lab	4
		CHEM 205 Elements of Gen. & Bio. Chemistry w/lab	4

**COMPUTER SCIENCE MINOR**

**24 credits**

CSC 150 Introduction to Computer Science	3	CSC 350 Computer Operating Systems	3
CSC 175 Advanced Software Applications	3	ED 440 Curr. & Methods in Computer Science Education	3
CSC 250 Computer Science, Theory & Practice I	3	Upper Division Computer Science Elective (Choose from CSC 370, CSC 425, CSC 450, CSC 470)	3
CSC 300 Computer Science, Theory & Practice II	3		
CSC 325 Computer Organization and Architecture I	3		

**ENGLISH/LANGUAGE ARTS MINOR**

**21 credits**

*ED 432 Teaching Writing	3	ENG 344 English Lit. I, ENG 345 English Lit. II OR ENG 347 World Literature	3
ENG 102 Basic English Grammar and Usage OR ENG 305 Advanced English Grammar and Usage	3	ED 252 Teaching Adolescent Literature or ENG 300 Adolescent Literature	3
ENG 341 American Lit. I or ENG 342 American Lit. II	3	Electives	6

**ESL: ENGLISH AS A SECOND LANGUAGE MINOR****22-25 credits**

Study of a Modern Foreign Language –  
with a minimum of 9 residence credits 9-12  
COMM 460 Cross Cultural Communication 3  
ENG 240 Basic English Linguistics 3

ENG 365 English: Its Cultural Development 3  
ED 310 Methods of Teaching Foreign  
Language and ESL 3  
ED 315 Practicum in ESL 1

**ENVIRONMENTAL SCIENCE MINOR****20 credits**

BIO 256 Environmental Science w/lab 4  
BIO 410 Ecology w/lab 4  
CHEM 205 Elements of General & Biological  
Chemistry w/lab 4  
SCI 135 Earth Science w/lab 4

Elective – Select from the following:  
BIO 142, BIO 240, BIO 244, BIO 249,  
BIO 367, PHYS 107, SCI 195,  
SCI 303, or other approved courses. 4

**GERMAN MINOR****24 credits**

GER 201 Intermediate German I 3  
GER 202 Intermediate German II 3  
GER 301 German Conversation & Composition 3  
GER 306 German Literature 3  
GER 307 Applied Linguistics 3  
GER 331 Advanced German  
Grammar & Composition 3

GER 361 Civilization & Culture of  
German-Speaking Countries 3  
\*ED 310 Methods in Teaching  
Foreign Language 3  
Also required: Immersion Experience and  
Test of Oral Proficiency

**HISTORY MINOR****21 credits****Required:**

U.S. History 3  
European History 3  
Non-Western/Global History 3  
HIST 385 Historical Methods 3  
HIST 490 Senior Seminar 3

**AND (the student must choose one of the following)****I. Emphasis in American History**

U.S. History 6  
European or Non-Western/Global History 3

**II. Emphasis in European History**

European History 6  
U.S. or Non-Western/Global History 3

**III. Emphasis in Global History**

Non-Western/Global History 6  
U.S. or European History 3

**MATHEMATICS MINOR****21-22 credits**

MATH 176 Finite Mathematics 3  
MATH 197 Applied Calculus **OR**  
MATH 201 Calculus I 3 - 4  
MATH 205 Statistics I 3  
CSC 150 Foundations of Computer Science 3

\*ED 312 Math in Middle School 3

**Electives – Choose from among:**

MATH 125, 128, 150, 202, 220, 305, 321, 331  
or other approved courses. 6



**PSYCHOLOGY MINOR**

**21 credits**

BIO 270 Human Anatomy & Physiology I – counts in Core for SCI 150  
 PSY 201 Interpersonal Communication 3  
 PSY 310 Theories of Personality 3  
 PSY 425 Abnormal Psychology 3  
 SOC 300 Group Dynamics 3

COMM 460 Cross Cultural Communication 3  
 Electives: Choose at least 6 credits from among:  
 PSY 222, PSY 245, PSY 315, PSY 451, PSY 460,  
 SOC 203, SOC 255, SOC 312, SOC 365,  
 SOC 375, SOC 450

**SCIENCE EDUCATION MINOR**

**20 credits**

BIO 146 Essentials of Anatomy & Physiology w/lab 4  
 BIO 256 Environmental Science w/lab 4  
 CHEM 205 Elements of Gen. & Bio. Chemistry w/lab 4

SCI 135 Earth Science w/lab 4  
 Elective – Choose from among:  
 BIO 142, 240, 244, 249, 410,  
 or other approved courses. 4

**SOCIAL STUDIES (BROADFIELD) MINOR**

**21 credits**

European History 3  
 United States History 3  
 HIST 385 Historical Methods 3  
 GEOG 220 Cultural Geography 3

SOC 203 Contemporary Social Problems **OR**  
 SOC 300 Group Dynamics 3  
 Electives: See the Education Office for clarification of recommended electives. 6

**SPANISH MINOR**

**24 credits**

SPAN 201 Intermediate Spanish I 3  
 SPAN 202 Intermediate Spanish II 3  
 SPAN 307 Applied Linguistics 3  
 SPAN 315 Topics in Conversation 3  
 SPAN 351 Spanish and Latin American Civilization I 3  
 SPAN 352 Spanish and Latin American Civilization II 3

SPAN 355 Spanish and Latin American Literature I **OR** SPAN 356 Spanish and Latin American Literature II 3  
 \*ED 310 Curriculum & Methods in Teaching a Foreign Language 3  
 Also required: Immersion Experience of at least four weeks and Test of Oral Proficiency

**SPEECH COMMUNICATION MINOR**

**21 credits**

ENG 102 Basic English Grammar and Usage **OR**  
 ENG 305 Advanced Grammar and Usage 3  
 COMM 201 Interpersonal Communication 3  
 COMM 205 Advanced Public Speaking 3  
 COMM 300 Group Dynamics 3  
 COMM 460 Cross Cultural Communication

Electives - Choose from among:  
 COMM 191, 193, 247, 250, 330, 333, 354, 390,  
 ENG 245, 246, 365, ED 208, 432,  
 SIGN 101, THTR 261, THTR 460  
 or other approved courses. 6

**SECONDARY EDUCATION PROGRAMS (GRADES 6-12)***Early Adolescence through Adolescence***K-12 EDUCATION PROGRAMS***Early Childhood through Adolescence*

NOTE: Art Education, Business Education, Choral/General Music Education, German, Instrumental/General Music Education, Physical Education, and Spanish are licensable as K-12 programs only.

CORE CURRICULUM:	51-52 credits	PUBLIC ED MAJOR:	39-42 credits
LUTHERAN/CHRISTIAN PUBLIC ED MAJOR:	48-51 credits	MAJOR SUBJECT AREA:	<u>39-64 credits</u>
			TOTAL: 129-167 credits

NOTE: Check with the Chair of the Secondary Education Department for possible changes in this major.

**I. CORE CURRICULUM****51-52 credits***Common Core – 15 credits*

Theology (Lutheran and Christian Public Education Emphasis)	
REL 201 Old Testament	
REL 204 Biblical Theology <b>OR</b>	
Theology (Public Education Emphasis)	
REL 100 The Bible	
REL 110 Christian Faith	6
History: HIST 103 Civilization & Worldviews: History	3
Literature: ENG 103 Civilization & Worldviews: Literature	3
Writing: ENG 104 Introduction to Writing	3

*Narrative Core – 12 credits*

Citizenship: POLS 201 American Government	3
Communications: COMM 105 Public Speaking <b>OR</b>	
COMM 201 Interpersonal Communication	3
Culture: ED 103 Human Relations	3
Philosophical Foundations: ED 102 Foundations of Education	3

*Elective Core – 24-25 credits*

Creative Arts: Any Art, Music, or Theatre “activity” course	3
Language: Non-Western Language, Non-Western History, or Non-Western Contemporary Culture	3
Mathematics: MATH 125 Contemporary Mathematics	3
Physical Development: HHP 100 Intro to Lifetime Fitness	1
Physical Development Activity Course	1
Life science with lab: SCI 150, BIO 140, BIO 146, BIO 246, BIO 256, BIO 270, or BIO 367	3/4
Physical science with lab: CHEM 205, PHYS 107, PHYS 121, SCI 135, SCI 155, SCI 195, SCI 246, or SCI 303	3/4
Note: Students must take at least one science course with a lab	
Social Science: ED 209	
Educational Psychology – Adolescent	3
Theology Elective	3

**II. SECONDARY/K-12 EDUCATION MAJOR****39-48 credits***Theoretical and Practical Components – 24-27 credits*

ED 203 Educational Technologies	1
ED 230 Nature of the Exceptional Child	3
*ED 350 Teaching in the Middle School	3
*ED 370 Analysis of Instruction - Secondary	3
+*ED 37_ Curriculum & Methods in Teaching Majors & Minors	3-6
*ED 383 Communication Arts in the Content Areas	3
*ED 409 Instructional Technologies	1
*ED 411 Professional Ethics	3
*ED 414 Portfolio Completion – Secondary	1
PSY 221 Child Development (For K-12 Majors only)	3
+Must be completed before enrolling in curriculum and methods course in majors and minors.	

*Experiential Component – 15 credits*

(For Clinicals, register for ED 100.)	
ED 100 (211) General Clinical I Experience	1
ED 100 (212) Multicultural Clinical II Experience	1
ED 100 (213) Special Education Clinical III Experience	1
*ED 422 & 474 (6-12) <b>OR</b>	
ED 433 & ED 434 (K-12) Student Teaching	12

*Lutheran (LCMS Members) Education**Requirements – 9 credits*

REL 203 New Testament	3
REL 404 Lutheran Confessions	3
*ED 306 Teaching the Faith	3

*Christian Public Education Requirements – 9 credits*

REL 203 New Testament	3
REL 404, REL 347, REL 333, PHIL 325	
OR PHIL 334	3
*ED 316 Teaching the Faith for the Christian Public Educator	3

\*Course Requires Upper Division Status

### III. SECONDARY EDUCATION (GRADES 6-12) LICENSABLE SUBJECT AREA MAJORS & MINORS

Concordia currently offers teaching majors for Grades 6-12 (early adolescence through adolescence) as approved by the Wisconsin Department of Public Instruction and leading to a Wisconsin license in the following subject areas: biology, broadfield science, English, history, mathematics, social studies (broadfield). Theology is offered as a non-licensable major.

Note that requirements are subject to change according to new state guidelines. See the Chair of Secondary Education for further details on these majors and for requirements for teaching minors.

NOTE: Students must select at least one licensable subject area major. In addition, students are strongly encouraged to add a subject area minor.

#### BIOLOGY MAJOR

46 credits

BIO 140 General Biology I & Lab (replaces SCI 150 in Core)	4	BIO Elective	3
BIO 142 General Biology II & Lab	4	<b>PHYSICAL SCIENCE REQUIREMENTS:</b>	8
BIO 146 Essentials of Anatomy & Physiology	4	CHEM 205 Gen. & Bio. Chem. & Lab <b>OR</b>	
BIO 240 Zoology & Lab	4	SCI 155 in Core 4 and PHYS 121	
BIO 244 Botany & Lab	4	Elementary Physics & Lab <b>OR</b>	
BIO 249 Microbiology & Lab	4	CHEM 210 Inorganic Chemistry I & Lab	
BIO 348 Genetics	4	(replaces SCI 155 in Core) and	
BIO 410 Ecology & Lab	4	CHEM 213 Inorganic Chemistry II & Lab	
BIO 490 Biology Senior Seminar	1	<b>MATH REQUIREMENT:</b>	
SCI 303 Cosmogony	3	MATH 205 Statistics I (satisfies Math in Core)	

#### BIOLOGY MINOR:

24 credits

BIO 140 General Biology I w/lab <b>OR</b>		BIO 256 Environmental Science w/lab <b>OR</b>	
SCI 150 w/lab in Core	4	BIO 410 Ecology w/lab	4
BIO 142 General Biology II w/lab	4	CHEM 205 Elements of Gen. & Bio. Chem. w/lab <b>OR</b>	
BIO 240 Zoology w/lab	4	SCI 155 Physical Science in Core	4
BIO 244 Botany w/lab	4		

NOTE:ED 376 Curriculum & Methods in Science - Secondary/Middle is also required for the secondary education biology major and minor.

#### BROAD FIELD SCIENCE MAJOR

56 credits

The Broad Field Science major consists of 56 credits of science divided among the three major subcategories of science—physical science, earth science, and biology/environmental science. The student will concentrate in at least one of these areas. CUW currently offers concentrations in biology/environmental science (Option I) and physical science (Option II). A person with a broad field science license may teach any science class at the early adolescence-adolescence level, up through grade 10, and any basic science class in grades 11-12 that is not: A) part of the college preparatory sequence; B) an advance placement course; C) an elective course with more depth of content than basic courses. To teach a course under the criteria in A, B, or C (above), the teacher must have a concentration in that subject area. Students with a life science emphasis will have a concentration (minor) to teach upper level courses in biology, and students with a physical science emphasis will have a concentration (minor) to teach upper level courses in chemistry.

#### OPTION I: Broad Field Science Major with a Concentration in Biology/Environmental Science

##### Biology/Envir. Science Concentration (27 credits)

BIO 140 General Biology I <b>OR</b>	
SCI 150 Life Sciences	4
BIO 142 General Biology II	4
BIO 146 Essentials of Anatomy/Physiology	4
BIO 256 Environmental Science	4
BIO 348 Genetics	4
BIO 490 Senior Seminar	1
Biology Electives	6

##### Earth Science Subcategory (13 credits)

SCI 135 Earth Science	4
PHYS 107 Astronomy	3
SCI 195 Meteorology	3
SCI 303 Cosmogony	3

##### Physical Science Subcategory (16 credits)

SCI 155 Physical Science	4
PHYS 151 General Physics I	4
CHEM 210 Inorganic Chemistry I	4
CHEM 213 Inorganic Chemistry II	4

**OPTION II: BFS Major with a Concentration Physical Science****Physical Science Concentration (26 credits)**

SCI 155 Physical Sciences	4
PHYS 151 General Physics I	4
PHYS 152 General Physics II	4
CHEM 210 Inorganic Chemistry I	4
CHEM 213 Inorganic Chemistry II	4
Chemistry Electives	6

**Earth Science Subcategory (13 credits)**

SCI 135 Earth Science	4
PHYS 107 Astronomy	3

SCI 195 Meteorology	3
SCI 303 Cosmogony	3

**Biology/Environ. Science Subcategory (17 credits)**

BIO 140 General Biology I <b>OR</b>	
SCI 150 Life Sciences	4
BIO 142 General Biology II	4
BIO 146 Essentials of Anatomy/Physiology	4
BIO 256 Environmental Science	4
BIO 490 Senior Seminar	1

NOTE: ED 376 Curriculum & Methods in Science - Secondary/Middle is required in the secondary education broad field science major.

**BROAD FIELD SOCIAL STUDIES MAJOR****63-66 credits**

The Broad Field Social Studies license entitles the applicant to teach all social studies courses in Grades 6-9, specific fusion courses in grades 10 - 12 (ex. Civics, American Problems, Social Problems, etc.), and history courses and courses in areas of concentration in all middle/secondary school grades. The Broad Field Social Studies Major requires a History Major with either a Social Science Minor or Social Science concentration.

**OPTION A — History Major with Social Science Minor****66 credits**

History Major	
(1,2, or 3, see Secondary History)	36
Social Science Minor	33
<u>Required Courses:</u>	
ECON 200 Principles of Economics	3
POLS 201 American Government	3
(Required in Core)	
PSY 209 Educational Psychology	3
(Required in Core)	

SOC 101 Introduction to Sociology	3
GEOG 220 Cultural Geography	3
<u>Electives:</u> 18	
Choose 18 additional credits in a single social science area: Political science, economics, psychology, sociology, or geography	

**OPTION B — History Major with Social Science Concentration****63 credits**

History Major (choose option 1, 2, or 3, see Secondary History)	36
Social Science Concentration	27
<u>Required Courses:</u>	
ECON 200 Principles of Economics	3
POLS 201 American Government	3
(Required in Core)	
PSY 209 Educational Psychology	3
(Required in Core)	

SOC 101 Introduction to Sociology	3
GEOG 220 Cultural Geography	3
<u>Electives:</u> 12	
Choose 12 additional credits in a single social science area; Political science, economics, psychology, sociology, or geography	
Area # 1	6
Area # 2	3
Area # 3	3

NOTE: ED 373 Curriculum & Methods in Social Studies - Secondary/Middle is also required for the broad field social science major.

**CHEMISTRY MINOR****26 credits**

CHEM 210 Inorganic Chemistry I	4
CHEM 213 Inorganic Chemistry II	4
CHEM 240 Organic Chemistry I	4
CHEM 242 Organic Chemistry II	4

CHEM 325 Analytical Chemistry	4
CHEM 425 Biochemistry	3
ED 376 Methods of Teaching Science - Secondary Middle	3

<b>ENGLISH MAJOR</b>		<b>39 credits</b>	
ENG 245 Advanced Writing	3	ENG 365 English – Its Cultural Development	3
ENG 305 Advanced Grammar and Usage	3	ENG 465 Shakespeare	3
ENG 341 American Literature I	3	ENG 475 Literary Criticism	3
ENG 342 American Literature II	3	ENG 495 Senior Seminar	3
ENG 344 English Literature I	3	ED 432 Teaching Writing	3
ENG 345 English Literature II	3	Elective	3
ENG 347 World Literature	3		

<b>ENGLISH MINOR</b>		<b>24 credits</b>	
ENG 245 Advanced Writing	3	ENG 347 World Literature	3
ENG 305 Advanced Grammar and Usage	3	ENG 365 English-Its Cultural Development	3
ENG 342 American Literature II	3	ENG 465 Shakespeare	3
ENG 344 English Literature I	3	ED 432 Teaching Writing	3

NOTE: ED 372 Curriculum & Methods in English - Secondary/Middle is also required for the English major and minor.

<b>GERMAN MINOR</b>		<b>24 credits</b>	
GER 201 Intermediate German I	3	GER 361 Civilization & Culture of German Speaking Countries	3
GER 202 Intermediate German II	3	*ED 310 Methods in Teaching Foreign Language	3
GER 301 German Conversation & Composition	3	Also required: Immersion Experience and Test of Oral Proficiency	
GER 306 German Literature	3		
GER 307 Applied Linguistics	3		
GER 331 Advanced German Grammar & Composition	3		

<b>HISTORY MAJOR</b>		<b>36 credits</b>	
<b>Required:</b>		<b>II. Emphasis in European History</b>	
U.S. History	6	European History	9
European History	6	U.S. or Non-Western/Global History	3
Non-Western/Global History	6	<b>III. Emphasis in Global History</b>	
HIST 385 Historical Methods	3	Non-Western/Global History	9
HIST 490 Senior Seminar	3	U.S. or European History	3
<b>AND (the student must choose one of the following)</b>			
<b>I. Emphasis in American History</b>			
U.S. History	9		
European or Non-Western/Global History	3		

<b>HISTORY MINOR</b>		<b>21 credits</b>	
<b>Required:</b>		<b>II. Emphasis in European History</b>	
U.S. History	3	European History	6
European History	3	U.S. or Non-Western/Global History	3
Non-Western/Global History	3	<b>III. Emphasis in Global History</b>	
HIST 385 Historical Methods	3	Non-Western/Global History	6
<b>AND (the student must choose one of the following)</b>		U.S. or European History	3
<b>I. Emphasis in American History</b>			
U.S. History	6		
European or Non-Western/Global History	3		

NOTE: ED 373 Curriculum & Methods in Social Studies-Secondary/Middle is also required for the history major and minor.



<b>MATHEMATICS MAJOR</b>			<b>40 credits</b>
MATH 201 Calculus I	4	MATH 321 Abstract Algebra	3
MATH 202 Calculus II	4	MATH 325 Linear Algebra & Differential Equations	4
MATH 203 Calculus III	4	MATH 331 Geometry	3
MATH 205 Statistics I (Fulfills the Math in Core)	3	MATH 441 Real Analysis	3
MATH 220 Discrete Mathematics	3	MATH 490 Senior Seminar	3
MATH 305 Statistics II	3	CSC 150 Foundations of Computer Science	3

<b>MATHEMATICS MINOR</b>			<b>21 credits</b>
MATH 201 Calculus I	4	MATH 205 Statistics I (fulfills the Math in Core)	3
MATH 202 Calculus II	4	Electives: Select from: MATH 220, 305, 321, 325, 331, 441, or 470.	6
MATH 203 Calculus III	4		

NOTE: ED 374 Curriculum & Methods in Mathematics - Secondary/Middle and ED 312 Math in the Middle School are required for Secondary Math major and minor.

<b>SPANISH MINOR</b>			<b>24 credits</b>
SPAN 201 Intermediate Spanish I	3	SPAN 355 Spanish and Latin American Literature I <b>OR</b>	
SPAN 202 Intermediate Spanish II	3	SPAN 356 Spanish and Latin American Literature II	3
SPAN 307 Applied Linguistics	3	*ED 310 Curriculum & Methods in Teaching a Foreign Language	3
SPAN 315 Topics in Conversation	3	Also required: Immersion Experience of at least four weeks and Test of Oral Proficiency	
SPAN 351 Spanish and Latin American Civilization I	3		
SPAN 352 Spanish and Latin American Civilization II	3		

<b>SPEECH MINOR</b>			<b>21 credits</b>
COMM 201 Interpersonal Communication			3
COMM 205 Advanced Public Speaking			3
COMM 250 Introduction to Mass Communication			3
COMM 300 Group Dynamics			3
COMM 460 Cross Cultural Communication			3
ED 372 Curriculum and Methods of Teaching English			3
Electives: Select from COMM 191, COMM 193, COMM 322, COMM 330, COMM 354, 390, THR 261			3

### THEOLOGY MAJOR AND MINOR

See requirements as listed in the School of Arts and Sciences section.

## IV. K-12 LICENSABLE SUBJECT AREA MAJORS & MINORS

Concordia currently offers teaching majors for Grades K-12 (approved by the Wisconsin Department of Public Instruction and leading to a Wisconsin license) in the following subject areas: art education, business education, German, music – general/choral, music – general/instrumental, physical education, and Spanish.

### ART EDUCATION MAJOR 103-112 crs.

The Art Education Major consists of 103-112 credit hours of course work dependent upon whether the student chooses a public school or Lutheran education focus. In both cases coursework blends studio and education courses to fully prepare students for a rewarding career in art education. Upon successful completion of coursework, including a semester of student teaching, art education majors earn full licensure by the State of Wisconsin to teach art at the elementary and secondary levels (K-12). In addition to requirements for the 52-credit K-12 Education core, art education majors complete the following required coursework.

**Required Art Department Courses – 42 credits**

ART 141 Drawing I	3 crs.	ART 258 Ceramics I	3 crs.
ART 110/111 Design I (2D) <b>OR</b> 2D Composition	3 crs.	ART 265 Painting I	3 crs.
ART 131 Photography I	3 crs.	ART 275 Sculpture I	3 crs.
GD 100/101 Digital Design I or II	3 crs.	ART 285 Art History I	3 crs.
ART 210 Design II (3D Composition)	3 crs.	ART 286 Art History II	3 crs.
ART 230 Printmaking I	3 crs.	ART 290-295 Applied Design	3 crs.
ART 245 Drawing II	3 crs.	ART 381 Aesthetics	3 crs.

**Electives — 9 crs.** Choose 9 credits from studio art education course offerings

**Art Education & K-12 Education Requirements – 37 credits**

AE 102 Foundations of Art Ed	3 crs.	AE 342 Art Education: Studio Practice	3 crs.
AE 235 Elementary Art Education Theory and Practice	2 crs.	PSY 221 Child Development	3 crs.
AE 237 Strategies for Mainstreaming in Art Education	1 cr.	ED 203 Educational Technologies	3 crs.
AE 335 Secondary Art Education Theory and Practice	3 crs.	ED 230 Nature of the Exceptional Child	3 crs.
AE 340 Curriculum Design for Art Education	3 crs.	*ED 350 Teaching in the Middle School	3 crs.
		*ED 370 Analysis of Instruction	3 crs.
		*ED 383 Communication Arts in Content Areas	3 crs.
		*ED 409 Instructional Technologies	3 crs.
		*ED 411 Professional Ethics	3 crs.
		*ED 414 Portfolio Completion	1 cr.

**Field Experiences – 15 credits**

ED 100 (211) Clinical I: General	1 cr.	ED 100 (213) Clinical III: Special Education	1 cr.
ED 100 (212) Clinical II: Multicultural	1 cr.	*ED 433 and ED 434 Student Teaching	12 crs.

**Lutheran Church Missouri Synod (LCMS) Education – 6 credits**

REL 203 New Testament	3 crs.	ED 306 Teaching the Faith	3 crs.
REL 404 Lutheran Confessions	3 crs.	<i>Note: REL 203 may also be counted within Core Requirements</i>	

**BUSINESS EDUCATION MAJOR**

ACCT 101 Accounting Principles I	3	CSC 100 Introduction of Keyboarding or equivalent (Keyboarding Course; demonstration of proficiency)	<b>37 credits</b> 2
ACCT 102 Accounting Principles II	3	CSC 150 Foundations of Computer Science	3
BUS 130 Principles of Management	3	CSC 175 Advanced Software Applications	3
BUS 210 Business Law I	3	ED 377 Curriculum & Methods in Business Education	3
BUS 360 Small Business Administration	3	ED 445 Principles of Vocational/Technical Education & Coop. Programs	2
BUS 450 International Business	3		
ECON 200 Principles of Economics	3		
COMM 247 Business Writing	3		
MKTG 131 Principles of Marketing	3		

**GERMAN MAJOR**

GER 201 Intermediate German I	3	<p><b>37 credits</b></p> <p>The following additional courses will be taken during a study abroad experience; each course is three weeks in length</p> <p>GERMAN Language Plus Education/ Social Science 3</p> <p>GERMAN Language Plus Education/ Social Science Practicum 3</p> <p>GERMAN Intensive Language Course 4</p> <p>ED 310 Methods in Teaching Foreign Language 3</p> <p>Also required: Immersion Experience and Test of Oral Proficiency</p>
GER 202 Intermediate German II	3	
GER 301 Conversation & Composition	3	
GER 306 Literature	3	
GER 307 Applied Linguistics	3	
GER 331 Advanced German Grammar & Composition	3	
GER 361 Civilization & Culture	3	
GER 490 Seminar/Capstone Course	3	

**MUSIC MAJOR – GENERAL/CHORAL K-12****53 credits**

MUS 240 Music Theory I	3	MUS 499 Recital (principal area)	2
MUS 241 Music Theory II	3	APPLIED MUSIC (Studio instruction in voice, piano, or organ Minimum 4 sem. at 2 cr./sem. in principal area and 4 sem. at 1 cr./sem. in minor area)	12
MUS 242 Music Theory III	3	ENSEMBLE (6 semesters minimum in a choral ensemble for credit)	6
MUS 243 Music Theory IV	3	Must pass a piano proficiency test.	
MUS 271 Music History I	3	Must pass a vocal proficiency test.	
MUS 272 Music History II	3	Must pass a folk/fretted instrument proficiency test.	
MUS 250 Beginning Conducting	3	Must successfully coach and perform publicly with a small vocal ensemble.	
MUS 315 Techniques of Teaching Voice	2		
MUS 351 Advanced Conducting	3		
MUS 37_ (Choose upper level music history course)	3		
MUS 445 Composing/Arranging	3		

NOTE: \*ED 379 Curriculum &amp; Methods in Music is also required for K-12 general/choral music.

**MUSIC MAJOR – GENERAL/INSTRUMENTAL (K-12)****58 credits**

MUS 240 Music Theory I	3	MUS 445 Composing/Arranging	3
MUS 241 Music Theory II	3	MUS 499 Recital (principal area)	2
MUS 242 Music Theory III	3	APPLIED MUSIC (Studio instrumental instruction) Minimum 4 sem. at 2 cr./sem. in principal area and 4 sem. at 1 cr./sem. in minor area	12
MUS 243 Music Theory IV	3	ENSEMBLE (6 semesters in an instrumental ensemble for credit)	6
MUS 271 Music History I	3	Must pass a piano proficiency test.	
MUS 272 Music History II	3	Must pass a secondary instrument proficiency test.	
MUS 250 Beginning Conducting	3	Must pass a folk/fretted instrument proficiency test.	
MUS 351 Advanced Conducting	3	Must coach and perform publicly with a small instrumental ensemble.	
MUS 356 Techniques of Teaching Brass	2		
MUS 357 Techniques of Teaching Woodwinds	2		
MUS 358 Techniques of Teaching Percussion	2		
MUS 359 Techniques of Teaching Strings	2		
MUS 37X (Choose upper level music history course)	3		

NOTE: \*ED 379 Curriculum &amp; Methods in Music is also required for K-12 general/instrumental music.

**K-12 PHYSICAL EDUCATION****48 credits****Core Courses**

BIO 270 Human Anatomy & Physiology I w/lab	4
BIO 272 Human Anatomy & Physiology II w/lab	4

**Professional Courses**

HHP 171 Introduction to Exercise Science	1
HHP 209 First Aid and CPR	2
HHP 275 Administration and Organization of Physical Education and Athletics	3
HHP 361 Technology in Health and Human Performance	3
HHP 371 Exercise Physiology	3
HHP 373 Motor Development	3
HHP 375 Biomechanics	3
HHP 407 Professional Foundations in Physical Education	3
HHP 410 Measurement & Evaluation in Health & PE	3
HHP 412 Adaptive Physical Education	3

**Pedagogy Courses**

HHP 208 Developing Teaching Skills in Physical Education	2
HHP 250 Teaching Activity Core II	3
HHP 254 Teaching Activity Core I (Satisfies HHP 100 Activity Core)	3
HHP 355 Teaching Activity Core III	3
HHP 356 Teaching Activity Core IV	3
HHP 381 Curriculum Methods for Teaching PE & Health-Secondary	3
HHP 404 Curriculum Methods for Teaching PE & Health-Elementary	3
HHP 428 Movement Skills in Early Childhood	2

**Electives – (choose 1)**

HHP 272 Introduction to Athletic Training	3
HHP 280 Psychology of Sport	3
HHP 409 History of Physical Education	3
HHP 414 Women in Sports	3

**Minors and/or Certification Available:** Athletic Coaching, Health Education, Adapted Physical Education

**HEALTH EDUCATION MINOR (Strongly encouraged with the Physical Education Major.) 24 credits**

HHP 100 Introduction to Lifetime Fitness (in Core)		HHP 342 Nutrition for Wellness and Performance	3
BIO 270 Anatomy & Physiology I with Lab	4	HHP 361 Technology in Health & Human Performance	3
(counts in Core for SCI 150 Life Science)	3	HHP 381 Curriculum and Methods of Health & PE – Secondary	3
HHP 209 First Aid and CPR	2	HHP 410 Measurement & Evaluation in Health & PE	3
HHP 260 Personal, Family & Community Health	3		
HHP 265 Healthy Lifestyles	3		

NOTE: *The Health Education minor is certified by the Wisconsin Department of Public Instruction for individuals who have completed a DPI certified major. This minor enables teacher education graduates to provide instruction in health promotion and the prevention of health problems to students in Lutheran and public school settings. The goal of this instruction is to enable individuals to make choices, which improve the quality of life and the care of God’s temple.*

**SPANISH MAJOR 33-39 credits**

SPAN 201 Intermediate Spanish I	3	SPAN 352 Spanish and Latin American Civilization II	3
SPAN 202 Intermediate Spanish II	3	SPAN 355 Spanish and Latin American Literature I	3
SPAN 307 Applied Linguistics	3	SPAN 356 Spanish and Latin American Literature II	3
SPAN 315 Topics in Conversation	3	SPAN 490 Seminar/Capstone Course	3
SPAN 331 Advanced Grammar and Composition	3	<i>ELECTIVES: At least 3 required during study abroad.</i>	
SPAN 351 Spanish and Latin American Civilization I	3		

NOTE: \*ED 310 Curriculum & Methods in Teaching a Foreign Language is also required for Spanish major.

NOTE: Spanish majors are required to participate in a semester or other program or study abroad (approved by the Modern Language Department) in a Spanish-speaking country. Up to 9 credits of required courses may be taken abroad. At least 3 elective credits are required during the study abroad.

NOTE: A test of oral proficiency in Spanish is also required for teaching.

**EDUCATIONAL STUDIES MINOR (non-licensable) 20 credits**

ED 100 Two Clinical Experiences	2	ED 230 Nature of the Exceptional Child	3
ED 102 Foundations of Education	3	ED 370 Analysis of Instruction — K-12	3
ED 103 Human Relations	3	Electives: Choose 6 credits from the following:	
ED 275 Human Learning OR ED 209 Educational Psychology – Adolescent	3	ED 306, ED 350, ED 411, ED 464	6

**TEACHER COLLOQUY PROGRAM (LCMS)**

The Teacher Colloquy is designed for members of the Missouri Synod who have received their teacher training at a non-Synodical college and would like to be certified for teaching in schools of the Synod. The program is available online through the Concordia University Education Network, CUEnet. ([www.cuenet.edu](http://www.cuenet.edu)). For more information, contact the CUEnet director at 1-800-238-3037 or write CUEnet, 345 Cyber Drive, Bend, Oregon 97702. The program typically consists of 24 credit hours.

In 1989, the Provisional Endorsement for Lutheran Teaching (P.E.L.T.) Program was developed by the colleges and universities and the appropriate boards of the Lutheran Church-Missouri Synod. This program was developed in recognition of the many capable Lutheran teachers involved in the ministries of the LCMS Parochial School Systems who were non-synodically certified.

The initial vision was to offer these teachers an avenue to take steps toward teacher’s synodical certification via the LCMS’s Teachers Colloquy Program. It was an initial step because the candidate could only fulfill some of the course requirements via the extension model. The candidate then had to complete the colloquy course requirements through residence course work at one of the synodical colleges offering a bachelor’s degree in teacher education. Since the Synodical Convention in Pittsburgh in 1992, it is possible to take the eight required courses to fulfill course work requirements for teach colloquy via the Theological Education by Extension Model. We have several extension locations in different parts of the country.

## SCHOOL OF HUMAN SERVICES

The School of Human Services houses the following undergraduate (UG) and graduate (G) professional and pre-professional programs in the health and human services: Nursing (UG/G), Occupational Therapy (G), Physical Therapy (G) and pre-Physical Therapy (UG), Radiology Technology (UG), Rehabilitation Sciences (UG/G), Social Work (UG) and Medical Assistant (Certificate).

### NURSING PROGRAM - BACHELOR OF SCIENCE

The purpose of the baccalaureate program in nursing prepares graduates to function as beginning practitioners in a variety of health-care and community settings and to work collaboratively with other disciplines in assisting individuals, families, groups and communities to achieve their full health potential. The baccalaureate program provides a broad foundation in liberal arts as well as nursing education. Opportunities to enhance personal growth and promote professional development, guided by Christian principles, helps build the foundation for continued professional growth. Many clinical agencies sites and community are incorporated into the learning experience throughout the programs.

The nursing programs were accredited by the Commission on Collegiate Nursing Education in 2004 for 10 years. Concordia University Wisconsin (CUW) has offered a baccalaureate degree in nursing since 1982. The Nursing Resource Center features a simulation laboratory using a Human Patient Simulator.

In May of 1991, Concordia graduated the first group of students in the Bachelor of Science in Nursing track for R.N.s. In the Spring of 1998 the first Master of Science in Nursing Class graduated. The BSN-RN and Master in Nursing programs have E-Learning and on-campus options. The Doctorate of Nursing Practice (DNP) began the first cohort of students in the Fall 2008.

Traditional High school students must submit evidence of adequate preparation for college from a regionally accredited high school with a minimum GPA of 2.75.

### UNDERGRADUATE NURSING PROGRAM ADMISSION REQUIREMENTS TO THE NURSING CLINICAL COURSES

1. GPA of 2.75 in science and nursing
2. A transfer student will be required to have a 3.0 GPA
3. A & P I & II, Microbiology, Chemistry, and Nursing 100 must be completed by the students' sophomore year.
4. CPR and C.N.A. certified
5. Nurse Entrance Test (NET) completed
6. All applications must be submitted to the nursing office by July 15th for the fall semester or December 15th for the spring semester.
7. Applications will be reviewed and prioritized by the Nursing Division.

By the conclusion of the freshmen year, application to the nursing major is required. See Concordia's website for the application form. The Nursing Entrance Test (NET), administered during finals of a freshmen's spring semester, will be used as one of the criteria for a student to continue into the nursing program. The number of students accepted will be dependent upon available clinical spots.

Transfer students, please contact the transfer counselor in Admissions for Concordia's application process and timeline.

Students must be prepared as a Certified Nursing Assistant (CNA) by January 1st of their sophomore year in order to progress into the first clinical experience.

The curriculum in nursing prepares individuals for a beginning practice of professional nursing. The nursing curriculum is built around the core curriculum and the supplemental courses which facilitate the development of a professional nurse. The nursing major requires successful completion of both the theory courses and the related clinical experiences. The Nursing Resource Center features a simulation laboratory using a Human Patient Simulator.

Upon graduation, the students are eligible to take the NCLEX-RN exam as part of the process to be licensed as a registered nurse (RN).

### PROGRESSION POLICY

To begin the nursing sequence of courses, a student must have a minimum G.P.A. of 2.75 at the beginning of the sophomore year. To continue in the nursing program after the sophomore year and as a requirement for graduation, the student must maintain a 2.75 G.P.A. in nursing courses. Further information is available in the BSN undergrad handbook.

### I. CORE CURRICULUM

**48 crs.**

Certain courses are prescribed for nursing students in meeting core curriculum requirements: Introduction to Writing or Advanced Writing and Interpersonal Communication to meet the communication requirement; Chemistry to meet the science requirement and Statistics to meet the math requirement; General Psychology to meet one of the social science requirements.



**II. MAJOR**

**67.5 crs.**

- Professional Core Foundations — 5
- Wellness Assessment — 3
- Prof. Core Found. Lab — 1
- Community Wellness — 4
- Community Wellness Practicum — 1
- Leadership Practicum — 2.5
- Introduction to Nursing Research — 3
- Nursing of Developing Families Peds/OB — 5
- OB: Neonates and Families/Pediatric Practicum/  
Psychological Wellness Practicum — 3
- Therapeutic Nutrition — 2
- Psychological Wellness — 3
- Alterations in Wellness I — 3
- Alterations in Wellness I Practicum — 1
- Alterations in Wellness II — 5
- Alterations in Wellness II Practicum — 4
- Alterations in Wellness II Lab — 1
- Alterations in Wellness III — 5
- Alterations in Wellness III Practicum — 2.5
- Complex Nursing Systems — 2
- Seminar in Contemporary Nursing Issues — 1
- Introduction to Professional Nursing — 1
- Pathophysiology — 4
- Pharmacology — 2.5
- Legal/Ethical Aspects of Nursing — 3

**III. SUPPLEMENTAL COURSES**

**15 crs.**

- Human Anatomy and Physiology I & II with Lab — 8
- Microbiology with Lab — 4
- Life Span Development — 3
- C.P.R. Certification required

**IV. ELECTIVES**

- N493 NCLEX - optional
- N390 Intro. To Basic EKG - optional

**BACHELOR OF SCIENCE—NURSING  
COMPLETION PROGRAM FOR REGISTERED NURSES**

Registered nurses who have graduated from an ADN or Diploma nursing program will find Concordia’s B.S.N. Completion Program a flexible means of furthering their nursing education. Coursework consists of accelerated learning modules. Completion program candidates can obtain their BSN degree in (2) two calendar years. Concordia University’s Nursing Completion Program is accredited by the Commission on Collegiate Nursing Education.

**I. LIBERAL ARTS CORE**

**31 crs.**

Many of the basic liberal arts courses may be accepted as transfer credits from accredited associate degree or diploma nursing programs:

- Theology — 6 (Must be taken for residency)
- Humanities
  - Nurs 331: Nursing in Historical Context and Nurs 106: Nursing and You — 6
- Cross Cultural
  - Nurs 360 Cultural Diversity in Nursing or SOC 343: Women’s Health — 3
- Social Science
  - PSY 101: General Psychology — 3
  - Sociology or Macroeconomics or Political Science — 3
- Natural Science
  - \*Chem 205: Elem. of General/Biological Chemistry — 3-4
- Communications
  - Intro to Writing or Advanced Writing — 3
- Mathematics
  - Math 130: Statistics — 3
- CLEP
  - \*Credit for this course can be earned by passing the NLN Basic Science Achievement Test or CLEP Exam

**II. COLLATERAL REQUIREMENT**

**15 crs.**

- Social Science
  - \*Psy 230 Life Span Development — 3
- Science
  - \*BIO 249, 270/271, 272/273 — 12

The following collateral courses will be accepted as transfer credits from accredited associate degree or diploma nursing programs

- Life Span Development — 3
- Microbiology — 4\*
- Anatomy/Physiology — 8

\*Credit for this course may also be earned by passing the NLN Basic Science Achievement Test

**III. NURSING MAJOR****70 crs.**

Many nursing courses may be accepted as transfer credits from accredited associate or diploma nursing programs. All R.N. Completion students must take the following courses: Nurs 232, 301, 335, 342, 442, 492.

Pharmacology — 2.5	Nursing of Developing Families/Peds — 2.5
Pathophysiology — 4	Nursing of Developing Families/OB — 2.5
Intro to Professional Nursing — 1	Pediatric Practicum — 1
Professional Core Foundations — 5	OB: Neonates and Families Practicum — 1
Alterations in Wellness I — 3	Introduction to Nursing Research — 3
Alterations in Wellness I Practicum — 1	Community Wellness for RNs — 6
Professional Core Foundations Lab — 1	Therapeutic Nutrition — 2
Wellness Assessment — 3	Psychological Wellness — 3
Nursing and The Neuman Model — 3	Psychological Wellness Practicum — 1
Legal/Ethical Aspects of Nursing — 3	Alterations in Wellness III — 5
Alterations in Wellness II — 5	Alterations in Wellness III Practicum — 2.5
Alterations in Wellness II Practicum — 4	Complex Nursing Systems for RN's — 5
Alterations in Wellness II Lab — 1	Seminar in Contemporary Nursing — 1

**IV. ELECTIVES****10 crs.****TOTAL 126 crs.****LPN TO RN TRACK**

LPNs may have knowledge from previous coursework that may be evaluated for waiver into the UG nursing program. LPN students should request a transcript analysis from the Department of Nursing.

**BACHELOR OF SCIENCE IN REHABILITATIVE SCIENCE (BSRS)**

This BS degree is intended to offer students an opportunity to receive a broad based education in rehabilitation science while meeting the pre-requisites for the Master's of Occupational Therapy (MOT) degree at CUW. Students who graduate with a BS in Rehabilitative Science have an opportunity to explore a wide range of employment opportunities if they choose to not pursue the MOT degree at CUW. Students in the BSRS program can complete their undergraduate degree in 3.5 years. Students in the BSRS program are required to take summer courses offered in an online format. Students can focus their education on an area of interest (pediatrics, gerontology, ministry) as they are able to take at least 17 elective credits. Students are able to choose Occupational Therapy as an area of interest and continue their graduate education in the Master of Occupational Therapy program at CUW (MOT).

Changes in the medical system have opened doors for students who possess an undergraduate degree. Students at CUW who receive the BS in Rehabilitative Science and who choose to not pursue a career in occupational therapy can use this degree to work in the following areas: community public health, community mental health, wellness programs, managed care organizations, child-care facilities, adult day-care facilities, pharmaceutical sales, medical sales, assistive living/independent living centers, specialty Alzheimer's disease care centers, fitness programs, nursing homes, and hospitals. Students who choose to pursue a career in Occupational Therapy can be admitted to the Master of Occupational Therapy program during their 3rd year of the BSRS program. Students can complete the BSRS and the MOT degrees in a 4.5 year period. (Please refer to graduate catalog for detailed information about the MOT program). Students who complete all pre-requisite courses with a 3.0 GPA and all other admission requirements, will be guaranteed entrance into the MOT program.

**Coursework for the Bachelor of Science in Rehabilitative Science** (courses are subject to change)

<b>Common Core:</b> - 15 credits (Take these particular courses)	
Bible Content (REL 100 The Bible)	3 crs.
Christian Doctrine (REL 110 Christian Faith)	3 crs.
History (HIST 103 Civilizations & Worldviews: History)	3 crs.
Literature (ENG 103 Civilizations & Worldviews: Literature)	3 crs.
Writing (ENG 104 Introduction to Writing)	3 crs.
<b>Narrative Core:</b> - 12 credits (Take these particular courses)	
Citizenship (POLS 285 American Politics & Health Care Policy)	3 crs.
Communication (COMM 201 Interpersonal Communications)	3 crs.
Culture/Language (COMM 460 Cross-Cultural Communication)	3 crs.
Philosophical Foundations (LA 105 Higher Ed - A New Experience)	3 crs.

<b>Elective Core:</b> - 21 credits	
Creative Arts	3 crs.
Language /Culture (recommended SIGN 101 Sign Language I)	3 crs.
Mathematics (recommended Statistics)	3 crs.
Physical Development (HHP 100 Intro to Lifetime Fitness)	1 cr.
Physical Development Activity Course (HHP Activity)	1 cr.
Science with a lab (BIO 280 Functional Anatomy & Physiology I)	4 crs.
Social Science (PSY 101 Intro to Psychology)	3 crs.
Theology Elective	3 crs.
<b>Additional Requirements:</b>	
BIO 281 Functional Anatomy & Physiology II	4 crs.
OT 104 Computer	1 cr.
OT 106 Medical Terminology	1 cr.

### Major Courses:

BIO 281 Anatomy & Physiology II	4 crs.
OT 104 Computer	1 cr.
OT106 Medical Terminology	1 cr.
BIO 301 Advanced Functional Anatomy & Physiology	4 crs.
RSC 304 Teaching and Learning in Rehabilitation (online)	3 crs.
PSY 230 Life Span Development	3 crs.
RSC 310 Culture and Rehabilitation	3 crs.
SOC 392 Sociology of Aging	3 crs.
HHP 375 Biomechanics	3 crs.
RSC 201 Medical Ethics in Rehabilitative Science (online)	3 crs.
OT 559 Wellness Prevention Programs (online)	3 crs.

### MOT courses:

<b>Semester one</b>	
BIO 550 Human Anatomy with lab	6 crs.
OT 523 Clinical Kinesiology	3 crs.
OT 525 Therapeutic Skills	2 crs.
OT 546 Group Skills	3 crs.
OT 548 Clinical Practicum-group	1 cr.
OT 521 Foundations	3 crs.
<b>Winterim</b>	
OT 544 Clinical Conditions(4 weeks; online)	3 crs.
<b>Semester two</b>	
OT 586 Rehabilitation Science – Ortho	3 crs.
OT 540 Scientific Inquiry I	3 crs.
OT 560 Neuroscience	3 crs.
OT 563 Pediatric Practice I	3 crs.
OT 573 Clinical Practicum – peds	1 cr.
OT 529 Assessment Skills	3 crs.
<b>Summer</b>	
OT 603 Practice Management (8 weeks; online)	3 crs.
<b>Semester three</b> (must choose one elective)	
OT 561 Rehabilitation Science- neuro	3 crs.
OT 584 Clinical Practicum – Adult Rehab	2 crs.
OT 569 Scientific Inquiry II	3 crs.
OT 571 Work Practice I	3 crs.
OT XXX UE course (elective)	3 crs.
OT 596 Pediatric Practice II	3 crs.
OT 565 Psychosocial Practice I	3 crs.

If students decide to not pursue the MOT degree; they will take elective credits instead of the above semester three credits. Completion of the BS degree when the above coursework is completed.

<b>Winterim</b>	OT 559 Wellness	3 crs.
	OT 615 Early Intervention/School Based Pediatrics	3 crs.
<b>Semester 4</b> (18 required credits; must choose one elective this semester or take OT615 in summer)	OT 601 Advanced Clinical Practice	3 crs.
	OT 588 Assistive Technology Options	3 crs.
	OT 590 Rehabilitation Science - integrated	3 crs.
	OT 582 Scientific Inquiry III	3 crs.
	OT 605 Community Practice	3 crs.
	OT 613 Work Practice II	3 crs.
	OT 595 OT Clinic	3 crs.
	OT 575 Fieldwork Seminar	NC pass/fail
<b>Summer</b> ( 3 elective credits; 6 credits of Level II FW)	OT 620 First Level II Fieldwork Service 3 months or 470 Hours	6 crs.
<b>Semester 5</b> (12 required credits; variable elective credits)	OT 622 Second Level II Fieldwork Service 3 Months or 470 Hours	6 crs.
	OT 624 Third Level II Fieldwork Service ELECTIVE Amt of time is negotiable	variable

Minimum Credits for Program: 90

\*Students must take a minimum of 5 credits of electives within the MOT Program

## DIAGNOSTIC MEDICAL SONOGRAPHY (ULTRASOUND)

### Program Overview

Students in this program study two years of liberal arts core on campus before continuing in their clinical training. The clinical component is conducted during the second two years at an area hospital that is an accredited program. Students graduate with a Bachelor of Science degree from Concordia University and they are qualified to take National Medical Diagnostic Sonography exams.

Students receive a strong liberal arts education in a Christian setting. They obtain the necessary preparation for their career through clinical experience in a hospital setting. Students who graduate with a BS in Diagnostic Medical Sonography have an opportunity to specialize in obstetric and gynecologic sonography, abdominal sonography, neurosonography, breast sonography, vascular technology or echocardiography.

### Clinical Assignments

The Sonography program is very competitive and not all students are placed at a clinical site. Placement of clinical sites is not guaranteed and college GPA is a major determinant. It is required that Sonography students maintain a 3.0 GPA to be considered for the clinical placement that occurs during the second 2 years of the program. The clinical component is 18-24 consecutive months at the hospital. Each student must also complete 400 hours of patient handling prior to submitting an application (sophomore year). Students can obtain the 400 hours through education/employment as a CNA or through volunteer hours available at the affiliating hospitals during winterim & summers.

### Admission Requirement

Diagnostic Medical Sonography students are accepted at CUW under the general admissions requirement. It is recommended that students complete anatomy & physiology, physics, and biology in high school to better prepare them for this major.

### Pre-Clinical Requirements

Diagnostic Medical Sonography students complete the general CUW core courses. In addition, students are required to take: 1 year of anatomy & physiology, 1 year of biology, 1 year of physics, medical terminology and foundations of computer science. Students must maintain a 3.0 GPA in pre clinical courses and acceptance into the clinical phase is not guaranteed. In addition, each student must complete 400 hours of patient care before they apply to the clinical phase (sophomore year).

## PROFESSIONAL CURRICULUMS

### COLUMBIA ST MARY'S DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM

<b>Semester I</b>		<b>Semester IV</b>	
Foundations of Sonography	3 cr.	Vascular Physics	3 cr
Physics I	3 cr	Vascular Technology I	3 cr
ABD I	3 cr	Registry Review	2 cr
OB I	3 cr	Ultrasound Clinical Ed IV	5 cr
GYN I	3 cr		
Ultrasound Clinical Ed I	3 cr	<b>Semester V</b>	
		Vascular Physics II	2 cr
<b>Semester II</b>		Vascular Technology II	2 cr
Physics II	3 cr	Ultrasound Clinical Ed V	3 cr
ABD II	3 cr		
OB II	3 cr	<b>Total 70 credits</b>	
GYN II	3 cr	<b>*1 clinical credit = 100 hours</b>	
Ultrasound Clinical Ed II	4 cr		
<b>Semester III</b>			
Physics III	3 cr		
ABD III	3 cr		
OB III	3 cr		
GYN III	3 cr		
Ultrasound Clinical Ed III	4 cr		

### WHEATON FRANCISCAN HEALTHCARE ST FRANCIS SCHOOL OF DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM

<b>Semester I</b>		<b>Semester IV</b>	
Foundations of Sonography	5 cr	Obstetrical Sonography I	3 cr
Abdomen I	4 cr	Vascular I	3 cr
Physics	4 cr	Pediatric Ultrasound	1 cr
Clinical Practicum I	3 cr	Abdomen & Pelvic Case Review	1 cr
		Clinical Practicum IV	3 cr
<b>Semester II</b>		<b>Semester V</b>	
Abdomen II	6 cr	Obstetrical Sonography II	3 cr
Physics II	2 cr	Vascular II	3 cr
Clinical Practicum II	3 cr	General & Vascular Case Review	1 cr
		Clinical Practicum V	3 cr
<b>Semester III</b>		<b>Semester VI</b>	
Pelvic Sonography	3 cr	Registry Review	4 cr
Superficial Sonography	2 cr	Case Review	1 cr
Physics III	2 cr	Clinical Practicum VI	5 cr
Abdominal Case Review	1 cr		
Clinical Practicum III	3 cr		
		<b>Total = 69 credits</b>	
		<b>*5 clinical hours – 1 didactic hour</b>	

### OCCUPATIONAL THERAPY PROGRAM

CUW's Master of Occupational Therapy program aims to help students develop entry level clinical skills, sound clinical reasoning based on theory and research, and beginning clinical research skills. The small class size allows personal faculty attention and mentoring. Exposure to different client populations in a wide variety of clinical and community settings occurs throughout the program. Classes are taught in extended time blocks that allow time for student fieldwork and employment.

Problem Based Learning (PBL) is an educational method that uses small group teams facilitated by either a faculty member or community clinician. Actual cases are presented to the group to address. PBL is used to help the students integrate course material, practice clinical problem solving, and become more familiar with the ambiguities of clinical practice.



Research is an important focus of the MOT program. Students learn to critically read and analyze literature, write evidence based research papers, and participate in a group research project with a poster presentation as the outcome. The faculty are actively engaged in research which provides additional research opportunities for students. CUW has state-of-the-art kinematic motion analysis equipment in the research laboratory that is available for student research projects.

Technological competence is another focus of the MOT program. Students become adept at using technology for professional use as well as clinical use. CUW has an extensive assistive technology lab that is available for student learning.

Concordia University Wisconsin's (CUW) Master of Occupational Therapy (MOT) program requires five semesters of sequential graduate work, including fieldwork. Students will need to complete each semester of the program before beginning the following semester course work. Students with a relevant undergraduate degree can be admitted directly to the MOT program with an outcome of a Master's Occupational Therapy degree. Students enrolled in the Bachelor of Science Degree in Rehabilitative Science are able to complete the undergraduate program (BSRS) and the Master of Occupational Therapy Program in a total of 4.5 years. A "three plus three" program is available for CUW students who are just beginning their undergraduate studies. Three years are devoted to study of a major (student choice) and an additional three years are devoted to their study of occupational therapy. The outcome is both a Bachelor's Degree in the major field and a Master's of Occupational Therapy degree in six years.

The Concordia University Wisconsin web site ([www.cuw.edu](http://www.cuw.edu)) contains additional information on the Master of Occupational Therapy program, including application and volunteer forms, or you may contact the graduate school admissions office for a complete packet of information.

The CUW Occupational Therapy program is non-discriminatory in recruitment, admissions, and program administration with respect to race, color, creed, sex, age, disabilities, religion, or national origin.

## ACCREDITATION STATUS AND CREDENTIALING MECHANISMS

The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. AOTA's phone number is (301) 652-AOTA. ACOTE representatives can be reached at (301) 652-6611, x2910, or e-mailed at [accred@aota.org](mailto:accred@aota.org). Graduates of the Program will be able to sit for the National Certification Examination for the Occupational Therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). NBCOT can be contacted by e-mail at <http://www.nbcot.org>, by mail at 800 S. Frederick Ave., Suite 200, Gaithersburg, MD 20877-4150 or by phone at (301) 990-7979. After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR).

Most states require additional licensure/certification in order to practice. In Wisconsin, the graduate must then apply for initial certification with the Medical Examining Board of Wisconsin in the Bureau of Regulation and Licensing.

## GENERAL ACADEMIC INFORMATION

Students should apply if they:

- Have an undergraduate degree and have completed the 9 prerequisite credits for the Occupational Therapy Program. OR
- Are currently completing an undergraduate and have the prerequisite credits.

### Requirements for students currently enrolled at CUW

- CUW students must complete an undergraduate major before applying to the MOT Program. Many majors in the Concordia University system have developed course sequencing which allows the CUW student to complete the courses required for the major, the liberal arts core, and the prerequisites for the MOT professional program, in three years.
- Students will be assigned an advisor from their major field of study as well as a mentor from the Occupational Therapy department. When all the requirements are met, the student may apply for admission to the MOT program. The credits completed during the first year in the MOT Program are considered a minor area of study and are added to the undergraduate credits to complete the 126 credits required for graduation for a Bachelor's Degree from CUW.
- Three-plus-three students are considered undergraduates during the first year in the MOT program. Students may qualify to be granted a bachelor's degree at the end of the first year in the MOT program when all requirements are met. The student would complete the next two years of the MOT program and graduate a second time with the Master's of Occupational Therapy Degree.

- There is a guaranteed Freshman Admission policy for CUW students. Please contact the Graduate Admission Department if you would like to review it.
- Three-plus-three students are considered undergraduates during the first year in the MOT program. Students may qualify to be granted a bachelor's degree at the end of the first year in the MOT program when all requirements are met. The student would complete the next two years of the MOT program and graduate a second time with the Master's of Occupational Therapy Degree.
- CUW students in the Rehabilitative Science Major may enter the MOT program in their junior year.

**Requirements for students with a Bachelor's degree from CUW or another university**

Students with a Bachelor's Degree can apply for direct entrance into the 2.5 yr. program of study for the Master's of Occupational Therapy Degree. Students with an earned undergraduate degree are granted graduate student status upon admission into the MOT program.

**Requirements for all students**

- Current certification in infant, child, adult CPR
- Current certification in first aid
- Grade of 3.0 or better average in prerequisites; grade of C or better in all other coursework.
- Science courses must have been taken within 5 years of application
- Completion of 40 hours of job shadowing a registered Occupational Therapist
- A Wisconsin criminal background check which certifies no record of a felony nor any pending charges
- Proof of health insurance

**Application Procedure**

- Complete a Master of Occupational Therapy program application form. If you have not completed the prerequisite/undergraduate courses, you must also complete a general Concordia University application form. **Deadline for admission is March 1.**
- Include a cover letter with your application form. In this cover letter, you may include any information that you would like the admission committee to know about yourself. Examples include: how you feel your undergraduate degree compliments the field of occupational therapy, why you chose occupational therapy, why you chose Concordia, any experience you may have had with a patient population, etc.). If you have not finished your prerequisite/undergraduate coursework, please indicate in this letter how you plan to do so within one year of admission.
- Request transcripts from all other colleges attended. Concordia University must receive transcripts from other colleges *before final acceptance* into the program can be made. Transcripts for courses in progress can be submitted upon completion of the course.
- Submit volunteer verification forms indicating at least 40 hours of volunteer experience working with an Occupational Therapist. These hours may be done at one facility or a variety of facilities. Volunteer Verification forms are included in the application packet and are available from the graduate admission office.
- Submit a nonrefundable application fee of \$35.00.
- Include two letters of recommendation with the application for admission. At least one letter should be from someone able to write about your academic abilities.

**PRE-PROFESSIONAL REQUIRED COURSEWORK**

**Science Core:**

BIO 270/271 Anatomy & Physiology I w/lab	4 credits
BIO 272/273 Anatomy & Physiology II w/lab	4 credits

**OT Core:**

OT 104 Computer Applications for OT  
(may demonstrate competency)

	<u>1 credit</u>
TOTAL	9 credits

**RECOMMENDED COURSEWORK**

for successful completion of MOT and these will meet core requirements for CUW undergraduate degree.

PHYS 121 Elementary Physics* <b>OR</b>	
PHYS 151 General Physics I*	4 credits
CHEM 205 General & Biological Chemistry* <b>OR</b>	
CHEM 210 General Chemistry I*	4 credits
MATH 205 Statistics	3 credits
PSY 230 Life Span Development	<u>3 credits</u>
TOTAL	14 credits

All pre-professional and undergraduate requirements must be completed or in progress at the time of application to the professional portion of the MOT Program.

**PRE-PHYSICAL THERAPY PROGRAM**

The Professional Physical Therapy Program (entry level program) at Concordia is a Doctor of Physical Therapy (DPT) Program. Students are admitted to the professional DPT program with a BS or BA degree completed prior to the start of the Fall program. A Master's degree is not required. This entry-level professional degree program is three years in duration and is a tracked program. This means that once a student enters the professional degree program, the course work is sequenced. The student will need to successfully complete one semester of education before starting on the following semester's course work. Students cannot enter the program on a part-time basis.

The DPT degree at Concordia is designed to produce a therapist who is an autonomous provider of Physical Therapy services. The course work will allow students to develop into clinicians who will be leaders in the community, will serve the community through commitment to excellence in clinical practice, and understand the spiritual, economic, and psychosocial needs of the clients they serve. The graduates of Concordia University Wisconsin (CUW) will be primary care practitioners in the health care system, able to practice independently and to understand the limits of their scope of professional practice.

Concordia's Physical Therapy program is accredited by the Commission on Accreditation for Physical Therapy Education. Graduation from an accredited program is required in order to sit for the national licensing exam.

**REQUIRED PRE-PHYSICAL THERAPY COURSE WORK**

1. *Pre-Physical Therapy Required Science Course Work:* All students must have the following science course work or its equivalent from another school completed or in progress with a 3.0 or better average before entering the professional program. Single semester survey courses in Biology, Chemistry or Physics will not meet the requirements for admission. The Physics sequence does not have to be calculus-based. Students taking the equivalent Advanced Placement (A/P) class for a science prerequisite and scoring a 4 or 5 on the exam will meet the admission requirement. Students who pass the CLEP test in a particular required science course will also meet the requirement. In neither of these situations will the scores be figured into the GPA.

- CHEM 210: Chemistry I
- CHEM 213: Chemistry II
- PHYSICS 151: Physics I
- PHYSICS 152: Physics II
- BIOLOGY 280 & 281: Functional Anatomy & Physiology I/II with lab
- BIOLOGY 470: Advanced Human Physiology

2. *Pre-Physical Therapy Required General Course Work:*

- Psychology (2 semesters; 6 credits)
- MATH 205: Statistics I

3. Strongly recommended courses for success in the Physical Therapy program:

- Biochemistry
- Kinesiology/Biomechanics
- Genetics
- Trigonometry
- Advanced Writing
- Computer Skills Class

4. Students must have a minimum GPA of 3.0 in all required science course work and a minimum overall GPA of 3.0 in all course work taken at a college level in order to be considered for admission.
5. Students must have a BS or BA degree before beginning the DPT professional program, but may apply for admission before the degree is completed.
6. Students are encouraged to choose an undergraduate major in an area of interest. No specific major is required or preferred provided that all Pre-Physical Therapy requirements are met (prior to entering the curriculum). Copies of various majors that coordinate well with the Pre-Physical Therapy requirements can be obtained in the Undergraduate Admission Office.
7. Undergraduate students must choose a faculty member in their chosen BS or BA major as an advisor. All Physical Therapy students accepted into the DPT degree program will be assigned an advisor from the Physical Therapy faculty. To assist students with planning, Physical Therapy faculty may be available weekly to advise pre-PT students. Contact the Undergraduate Admissions office to arrange dates and times 262-243-4560.
8. The final decisions on acceptable pre-requisite credits is made by the CUW Selection Committee

## ADMISSION INFORMATION

1. Applicants are chosen for admission on the basis of individual merit. The Physical Therapy program does not discriminate in student admission policies, administration of its educational policies, scholarship and loan programs, or extra curricular activities on the basis of race, color, creed, national or ethnic origin, sex, age, disabling conditions, or marital status.
2. CUW will admit one class of 24 students in the Fall of each academic year. Students who are not accepted into the program, and who wish to apply for the following year will need to repeat the admission process. No admission slot will be held for students in the event they are accepted and for any reason cannot attend in the fall of the year they are accepted.
3. The priority application deadline is December 1st of every year. Applications may be reviewed after that date and applicants may be considered as alternates if space becomes available. Priority applicants will be notified of acceptance by February 15th of each year. Students are responsible for assuring the completeness of their applications and may call the Graduate Admission office for information.
4. GRE scores are not required for application to the program.
5. Students from a Concordia University System school receive preference in the admission process using the following priorities: a) Students who do their undergraduate work at Concordia University Wisconsin. b) Students who do their undergraduate work at other Concordia University System schools. c) Students who have attended a Concordia University System school for at least 3 credits. The Physical Therapy Selection Committee will determine acceptance into the program. The Selection Committee chooses applicants it considers most qualified for the study and practice of the profession from the pool of qualified applicants and has the final decision-making authority over who will be accepted into the professional Physical Therapy program.
6. Students applying to the professional Physical Therapy program must have either paid or volunteer experience with individuals who are physically or cognitively disabled. Forty hours (40) of observation and/or interaction in at least two (2) different patient/ client settings are required. The experiences can occur within the same institution, but should provide exposure to diverse patient/ client populations. Examples of settings include: Outpatient Orthopedics; Pediatrics; Skilled Nursing Facility; Inpatient Rehabilitation; Acute Care; Schools; Home Health; Special Olympics; Camps. A work/volunteer experience form must be filled out by the person observing/supervising each of the work or volunteer experiences and must be submitted to the Graduate Admission Office at Concordia.
7. If a slot becomes available during the first or second year, students from other Physical Therapy schools with all the Physical Therapy prerequisites and similar Physical Therapy course work may apply for that slot.
8. Students who withdraw from the Physical Therapy program after the first day of class may reapply for admission the following year and may be considered for readmission as placements become available. The tuition deposit will not be refunded.
9. No slots will be held for students in the event they are accepted and for any reason cannot attend in the Fall of the year they are accepted. In this case, the applicant would need to re-apply to the program. The \$1,000 deposit may be applied to future applications.
10. A three year flat rate tuition is set in advance for each academic year.
11. Students from abroad must have their transcripts reviewed and evaluated by a recognized credentialing service in the United States. Contact the Graduate Admission Office for recommended agencies. Students must meet the graduate school requirements for international students.

## APPLICATION MATERIALS

1. Concordia University Wisconsin Application form.
  2. Physical Therapy Program Application Addendum.
  3. Work/Volunteer Experience Forms: At least two forms must be submitted. Students applying to the professional Physical Therapy program must have either paid or volunteer experience with individuals who are physically or cognitively disabled. Forty hours (40) of observation and/or interaction in at least two (2) different patient/ client settings are required. (see further information above in the Admission Policy).
  4. Two Recommendation Forms: Completed by professors and/or employers.
  5. Application Essay: A one page essay as to why you would like to become a Physical Therapist must be submitted.
  6. Resume: A resume of your education, work, and related experiences.
  7. Transcripts: An official copy of ALL college or university transcripts must be submitted.
  8. Non-refundable Application Fee: A \$35.00 non-refundable application fee must be submitted with the application.
- The priority deadline for all application materials to be submitted is December 1st.

## RADIOLOGIC TECHNOLOGY MAJOR

### PROGRAM OVERVIEW

The registered radiologic technologist (radiographer) utilizes knowledge of human anatomy and disease, mathematics, physics and operation of radiation-producing equipment for diagnostic purposes. Radiologic technologists may be employed in various health care settings, i.e. hospitals or clinics, industry, business, research, administration or education.

The major is intended to be a four-year course of study leading to a Bachelor of Science degree. The program is jointly sponsored and is structured such that core required of the university and pre-clinical components are conducted by Concordia University during the first 2 years, while clinical components are conducted at Joint Review Commission on Education in Radiologic Technology accredited programs for the second 2 years. Successful completion of competency requirements within the clinical program must be achieved prior to graduation.

### CLINICAL ASSIGNMENTS

Students should be aware that the program requires clinical coursework off-CUW campus for a period of 24 months. Clinical coursework is usually 8 hours per day and can range from a minimum of 24 to a maximum of 40 hours a week. Clinical rotations are not limited to one site. Vacation periods are scheduled intermittently during the year by the clinical faculty.

### ADMISSION REQUIREMENTS

Applicants to the Radiologic Technology Program are expected to fulfill the University admission requirements. In addition, two years of high school math and one year of high school physics are recommended. Acceptance is not automatic and is based on successful completion of all pre-professional coursework with a minimum cumulative GPA of 3.0

Admission to the Radiologic Technology Program is limited. No more students will be admitted into the program than can be accommodated in the pre-clinical and clinical coursework. Students must apply for clinical admission by the end of the first semester of their sophomore year. Applications for admission to the program are available through the program director.

### TUITION

Students in the Radiologic Technology Program will pay CUW tuition during the pre-clinical and clinical aspects of the program. Students in the clinical aspect of the program do not have to pay any overload tuition charges. A percentage of the tuition will be given to the clinical program. Thus, students who are receiving the Emeritus (full) Scholarship or are full time CUW employees (tuition-free) will need to pay tuition during the clinical aspect of the program.

## PROFESSIONAL CURRICULUM

### RADIOLOGY ALLIANCE (COLUMBIA ST MARYS, FROEDERT HOSPITAL, WHEATON FRANCISCAN-ST JOSEPH)

The curriculum for the Alliance is drawn up and taught according to the course of study approved by the Joint Review Committee on Education in Radiologic Technology (ASRT curriculum). Classes are usually one to two hours duration and are held at regularly scheduled times.

#### SEMESTER I

Introduction to Radiology  
Radiation Protection  
Principles of Radiographic Exposure I  
Radiographic Procedures I  
Radiography Clinical Education I

#### SEMESTER II

Medical Terminology (Self study course-internet)  
Principles of Radiographic Exposure II (Prerequisite Radiographic Exposure I)\*  
Radiographic Procedures II (Prerequisite Procedures I)\*  
Methods of Patient Care  
Radiography Clinical Education II

#### SEMESTER III (Summer I)

Radiographic Procedures III  
Radiography Clinical Education III

#### SEMESTER IV

Radiographic Procedures IV  
Cross Sectional Anatomy  
Radiographic Physics I  
Digital Imaging  
Radiography Clinical Education IV

#### SEMESTER V

Radiologic Physics II  
Quality Assurance  
Independent Study-Senior Project  
Radiobiology  
Radiographic Pathology  
Radiography Clinical Education V

#### SEMESTER VI

Professional Development  
Radiography Clinical Education VI

\* Faculty has discretion to allow intern to complete a course if prerequisite is not met.

## MEDICAL ASSISTANT PROGRAM

The Concordia University Wisconsin Medical Assistant Program uses the Standards and Guidelines of Content and Competency, set by CAAHEP and the AAMA, as the basis for the curriculum.

The mission of the Medical Assistant program is to prepare graduates to work with healthcare team members in a variety of medical settings in assisting individuals, families, and communities of diverse cultural backgrounds to achieve their full health potential.

#### I. CUW CORE CURRICULUM 9 crs.

Interpersonal Communication — 3  
Psychology — 3  
The Bible As Literature — 3

#### II. PROFESSIONAL CURRICULUM 25 crs.

Anatomy & Physiology I — 3  
Anatomy & Physiology II — 3  
Administrative Procedures I — 2  
Administrative Procedures II — 2  
Cardiopulmonary Resuscitation — 1  
Clinical Procedures I — 2  
Clinical Procedures II — 2  
Laboratory Procedures I — 2  
Laboratory Procedures II — 2  
Medical Law & Ethics — 2  
Pharmacology — 1  
Externship — 3



## SOCIAL WORK MAJOR

Social work is a profession, as well as a vocation. Social work can challenge you and help you gain the skills and knowledge to make a difference for others. Its goal is to improve the overall functioning and well-being of all people. Yet, social workers have a special concern for the poor, the marginalized, and the vulnerable. Social work is both an art and science. It builds on the knowledge base and skills of social work, the social sciences, as well as the liberal arts. Social work majors have an opportunity to gain “hands-on” experience through internships (field placements) in a wide variety of settings, such as criminal justice systems, child and family services, mental health settings, or hospitals. Likewise, social work is a profession of possibilities, both in terms of career paths and in the ways that clients can be helped.

### MISSION

The mission of the CUW Social Work Program is to prepare graduates for baccalaureate level, generalist social work practice, within the context of faith, service, and social justice.

Generalist social work practice means that social work majors learn how to help others in many broad-based ways. They may assist individuals, families, groups, communities, and organizations in a variety of social work or related settings. Generalist social work practice includes helping people from a strengths perspective, which means recognizing, supporting, and building on the innate capabilities of all human beings.

The mission of the Social Work Program includes the importance of a faith perspective that provides the support, energy, and commitment to make a difference in the lives of others. The mission inspires majors to use the force of their individual personal selves and professional skills in service to others and encourages majors to work for social and economic justice for those who may be forgotten or marginalized in our larger society. Social work embraces six core values. They include the values of service, social justice, the dignity and worth of each person, the importance of human relationships, integrity, and competence. The values of human rights and the importance of scientific inquiry support these core values.

The social work curriculum promotes the social work mission through providing the theoretical concepts, a broad knowledge base, and the applied skills necessary to improve and enhance the overall well-being of others. The mission is carried out through the professional social work foundation courses which include content on social work values and ethics; human diversity; social and economic justice; populations-at-risk; human behavior in the social environment; social welfare policy and services; social work practice skills; research; and field (internship) practicum.

### SOCIAL WORK PROGRAM GOALS

The goals of the CUW Social Work Program are to:

- Prepare students for professional generalist practice.
- Develop students who have a strong skill and knowledge base in their practice with diverse groups.
- Support students in their understanding and ability to apply social work values and ethics to their professional social work practice.
- Prepare students who can apply research and/or evidence-based practice to their various practice contexts and for self and practice evaluation.
- Encourage students to draw on the foundation of faith, service, and social justice to provide leadership in the provision of service to and solidarity for marginalized or oppressed groups.

### SOCIAL WORK PROGRAM CORE COMPETENCIES

- Identify as a professional social worker and conduct yourself accordingly.
- Apply social work ethical principles to guide professional practice.
- Apply critical thinking to inform and communicate professional judgments.
- Engage diversity and difference in practice.
- Advance human rights and social and economic justice.
- Engage in research-informed practice and practice-informed research.
- Apply knowledge of human behavior and the social environment.
- Engage in policy practice to advance social and economic well-being and to deliver effective social work services.
- Respond to contexts that shape practice.
- Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.

### ADMISSION PROCEDURES

Students may declare a social work major as an arriving freshman or anytime while a student in good standing at Concordia University Wisconsin. Students who declare a social work major during their freshmen or sophomore year have the advantage of being assigned a social work faculty member as their academic advisor. Social work faculty members are available to discuss the social work major and application process with all interested students.

Students cannot enroll into Upper Division social work courses (SW 300 or SW 400 level) or begin a field placement until they have completed the application process for Upper Division Social Work Status. Students must be officially accepted for Upper Division Status by the Director of the Social Work Program. Students need to apply for Upper Division Status during the spring semester of their sophomore year and begin their Upper Division SW Foundation Courses in the fall of their junior year.

Prior to official acceptance into Upper Division Status, students are expected to take the two Introductory social work courses, SW 100 (Introduction to Social Work) and SW 205 (Introduction to Social Welfare) during their freshmen or sophomore year. This planning is necessary because Upper Division Social Work Foundation courses are offered in a sequence which begins in the fall semester of the student's junior year. In rare circumstances, exceptions may be made, but additional planning and consultation are needed.

The process for admission to Upper Division Status for the Social Work Major is to:

- Complete SW 100 (Introduction to Social Work) and SW 205 (Introduction to Social Welfare).
- Have a minimum cumulative grade point average of 2.3 overall and a 2.75 GPA in social work courses.
- Complete an application for acceptance into Upper Division Status in the social work major. A completed application includes:
  - Completion of Application for Admission Form
  - Completion of an Upper Division Narrative (self-study)
  - Interview with the Director of the Social Work Program or other social work faculty

## TRANSFER STUDENTS

Transfer Students may also be accepted into Upper Division Status, if they have completed the above requirements. These students will need to review their transfer core curriculum credits with the admissions counselor and Registrar's Office. Any transfer credits related to the social work major and social science minor must be reviewed by the Director of the Social Work Program.

## LAY MINISTRY CERTIFICATION

A social work major, who is a member of the Lutheran Church Missouri Synod, may also earn a Lay Ministry Certificate in addition to a Bachelor Degree in Social Work (BSW). Students can obtain an application for this minor from the Lay Ministry Office. Social work majors who decide to additionally pursue the Lay Ministry minor can apply the courses required for the Lay Ministry minor to the 18 elective credits needed for the social work major and will only need an additional 3 credits to complete the Lay Ministry Minor. The Lay Ministry Internship can be obtained through the Social Work Field Placement, which is required during the student's senior year. Upon graduation in addition to their Social Work Degree (BSW), students receive a Lay Ministry Certification and are eligible to work within the Lutheran Church Missouri Synod.

## PROGRESSION POLICY

Students must apply to the Social Work Program for Upper Division Status during the second semester of their sophomore year. To enter the program and maintain a good standing, a student must have a cumulative GPA of at least 2.30 and a minimum GPA of 2.75 in social work classes. They must also complete an application and self-study.

## ACCREDITATION

Social Work Programs at the baccalaureate and master's levels are accredited by the Council on Social Work Education (CSWE). The Social Work Program at Concordia University is fully accredited by CSWE.

CSWE Accreditation establishes uniform educational standards for social work students to insure students acquire the highest standards of professional training and practice. Additionally, an accredited program qualifies graduates for advanced standing in graduate programs that grant the Master of Social Work Degree (MSW). This status typically makes it possible for BSW graduates to earn an MSW in three semesters. Students who receive their BSW can also join The National Association of Social Workers (NASW), the largest professional association of social workers. Finally, students who graduate from accredited social work programs are eligible to apply and take the examination for state licensing or certification for professional social work practice. Social workers, who successfully complete the baccalaureate degree requirements at Concordia University Wisconsin, graduate from a program accredited by the Council of Social Work Education and receive a Bachelor of Social Work degree (BSW).

## FIELD EDUCATION (INTERNSHIPS)

### DESCRIPTION

The curriculum design for field education is incorporated in two semesters and involves the accumulation of 432 hours of fieldwork. Field experience offers students the opportunity to test and demonstrate their abilities and knowledge in a supervised educational setting. Social work majors, with upper division status, are required to enroll in SW 327 Field

Education I and SW 427 Field Education II. In conjunction with Field Education, students are required to enroll in SW 328 Field Seminar I and SW 428 Field Seminar II. Participation in the seminar is to be concurrent with field education. The seminar format will provide for the integration of field experience with classroom learning through discussion and assignments.

### APPLICATION PROCESS FOR FIELD EDUCATION

Students are placed in a variety of agencies, commensurate with their expressed desires and educational needs. The placement process begins with the completion of an application. Students are required to apply for field in the second semester of their junior year.

## SOCIAL WORK PROGRAM CURRICULUM

### I. THE CORE CURRICULUM

**48 crs.**

Students in this program must take BIO 146, Anatomy and Physiology, for non-biology majors. (Other lab sciences covering human biology may be accepted.)

### II. THE SOCIAL WORK MAJOR

**45 crs.**

SW 100 Introduction to Social Work	3 crs.
SW 205 Introduction to Social Welfare	3 crs.
SW 306 Social Welfare Policy and Programs	3 crs.
SW 310 Research Methods 1	3 crs.
SW 346 Human Behavior and the Social Environment 1	3 crs.
SW 347 Human Behavior and the Social Environment 11	3 crs.
SW 410 Research Methods 11	3 crs.
SW 490 Senior Seminar/Project	3 crs.
SW 327 Field Education 1	5 crs.
SW 328 Field Seminar I	1 cr.
SW 427 Field Education 11	5 crs.
SW 428 Field Seminar 11	1 crs.
SW 326 Skills and Methods of Social Work Practice 1	3 crs.
SW 426 Skills and Methods of Social Work Practice 11	3 crs.
SW 436 Skills and Methods of Social Work Practice 111	3 crs.

### III. SOCIAL SCIENCE MINOR

**18 crs.**

All classes below are required (27 credits). However, 3 classes (9 credits) count towards the Core.

PSY 101 Gen. Psychology	3 crs.
SOC 10 1 Intro to Sociology	3 crs.
ECON 222 Macro-econ. or ECON 200 Principles of Econ.	3 crs.
POL 101 or 201 or 285 Political Science	3 crs.
COMM 105 Spoken Word	3 crs.
COMM 201/PSY 201 Interpersonal Communication	3 crs.
PSY 230 Life Span Development	3 crs.
SOC 300 Group Dynamics	3 crs.
SW 375 Understanding Death & Dying	3 crs.

### IV. ELECTIVES (Suggested, other courses can be selected)

**18 crs.**

BIO 256 Environmental Science	4 crs.
BIO 348 Human Genetics and Society	3 crs.
BUS 231 Principals of Management	3 crs.
BUS 336 Human Resources Management	3 crs.
ECON 231 Micro-economics	3 crs.
FIN 200 Personal Finance	3 crs.
HHP 260 Personal, family & Community Health	3 crs.
JPP 102 Intro to Law Enforcement	3 crs.
JPP 104 Intro to Courts	3 crs.
JPP 110 Juvenile Theory	3 crs.

JPP 206 Intro to Corrections	3 crs.
PSY 3 10 Theories of Personality	3 crs.
PSY 315 Social Psychology	3 crs.
PSY 331 Criminal Psychology	3 crs.
PSY 425 Abnormal Psychology	3 crs.
SOC 203 Contemporary Social Problems	3 crs.
SOC 255 Urban Society	3 crs.
SOC 256/JPP 103 Criminology	3 crs.
SOC 312 Marriage and Family	3 crs.
SOC 343 Women's Health	3 crs.
SOC 365 Drugs, Society, and Human Behavior	3 crs.
SOC 392 Aging and the Social Environment	3 crs.
PSY 221 Child Development	3 crs.
PSY 222 Adolescent Development	3 crs.
PSY 354 Gender and Communication	3 crs.
PSY 360 Psychology and Religion	3 crs.

**V. LAY MINISTRY MINOR 24 crs.**

**AFFIRMATIVE ACTION / NONDISCRIMINATION**

The Social Work Program at Concordia University Wisconsin does not discriminate on the basis of race, color, gender, age, ethnic or national origin, or physical disability in the areas of student admission to the program, as well as hiring or promotion for faculty.

**THE INDIVIDUALIZED MAJOR AND MINOR**

(Major 30 cr. minimum) (Minor 18 cr. minimum)

An exception to the requirement of a readymade major may be granted to a limited number of capable students with special needs or interests. For example, the student whose particular academic interests or career goals may better be served by a distinctive and flexible, but related grouping of courses, that provide for sustained contact with some problem or topic, may develop an appropriate major within the existing resources of the college.

Such self-designated proposals are initiated by the student with the aid of the mentor or academic advisor, developed with the assistance of a professor from an appropriate field, and submitted to the Academic Council for evaluation and recommendation. Final action rests with the Vice President of Academics. If approved, a copy of the plan must be filed in the student's records by the Registrar.

**ADULT AND CONTINUING EDUCATION**

Concordia University Adult Education Studies is charged with carrying the mission of the University to the non-traditional adult student. Like the traditional degree programs, the programs in Adult Education are founded in the Christian Liberal Arts tradition of the University.

Our program is very much tailored to the needs and unique capabilities of the adult learner. For instance, classes are offered at locations near students' home or work. Classes are offered in an accelerated evening format. In addition, students can earn credit in a variety of modalities including the traditional classroom setting, telecourses, and college level learning experiences obtained outside the classroom.

Adult Education delivers courses at eleven off-campus centers located in Missouri and Louisiana, as well as Wisconsin. The average age of students attending the program is 34, typically 25 years old at a minimum, and students are required to have several years of work experience. A separate catalog is produced for adult education studies, and you are referred to it for further details.

## COURSE DESCRIPTIONS — REGULAR PROGRAMS

### ACCOUNTING

**ACCT 101 ACCOUNTING PRINCIPLES I** Emphasis is placed on the process of identifying, measuring, recording, and communicating the economic events of an organization. This introductory course presents the various steps in the accounting cycle for a sole proprietorship business. 3 credits.

**ACCT 102 ACCOUNTING PRINCIPLES II** is a continuation of ACCT 101 (Accounting Principles I). Topics of corporate operations are covered including capital stock and dividend transactions, stockholders' equity, and bond financing. The statement of cash flows, financial statement analysis, and partnerships as a form of business are also studied. The final third of the course is devoted to the introduction to managerial accounting. Prerequisite: ACCT 101. 3 credits.

**ACCT 210 COST ACCOUNTING** presents cost accounting systems, job order and process costing, standard costs, and variance analysis. Prerequisite: ACCT 102 (or by permission of the instructor); sophomore standing. 3 credits.

**ACCT 223 MANAGERIAL ACCOUNTING** covers procedures for measuring managerial performance, developing budgets in the process of planning, and control within an organization. Emphasis is placed on the function and interpretation of accounting information for decision making by management. Prerequisite: ACCT 102 (or by permission of the instructor); sophomore standing. 3 credits.

**ACCT 310 INTERMEDIATE ACCOUNTING I** builds on the accounting foundation established in Principles of Accounting I and II. The course provides an in-depth study of the conceptual and technical issues surrounding the recording and reporting standards set forth by Generally Accepted Accounting Principles (GAAP). Prerequisite: ACCT 102 (or by permission of the instructor); sophomore standing. 3 credits.

**ACCT 311 INTERMEDIATE ACCOUNTING II** extends the students an in-depth study of the conceptual and technical issues surrounding the recording and reporting standards set forth by GAAP. Special reporting requirements for earnings per share, accounting for income taxes, pensions, leases, and interim reporting are addressed. Prerequisite: ACCT 310 (or by permission of the instructor); sophomore standing. 3 credits.

**ACCT 330 ADVANCED ACCOUNTING I** is a study of accounting principals, theoretical concepts, conventions, and research techniques to record and report transactions dealing with business combinations and consolidated financial statements, SEC reporting, intermin financial reporting and disclosures. Prerequisite: ACCT 311 (or by permission of the instructor). 3 credits.

**ACCT 331 ADVANCED ACCOUNTING II** is an advanced study of accounting concepts applied to specific situations, including the study of foreign currency translation, state and local government accounting, not-for-profit accounting with a refresher on partnerships. ACCT 330 is not a pre-requisite for this course. Prerequisite: ACCT 311 (or by permission or instructor). 3 credits.

**ACCT 350 INCOME TAX I** presents the history of federal income taxation and covers the taxation of personal income. Emphasis is focused on the determination of gross income, adjusted gross income, deductions, credits, and consequences of property transactions. Tax policies and procedures reviewed relate to the Internal Revenue Code and interpretations of the Internal Revenue Service. Prerequisite: ACCT 311. 3 credits.

**ACCT 360 INCOME TAX II** studies partnership, fiduciary, and corporation income tax laws for proper treatment of various types of income, deductions, the consequences of ownership interests, and the application of various rates to taxable situations. Covers the administrative procedures for protests, refunds, and gift-estate taxes. Prerequisite: ACCT 350. 3 credits.

**ACCT 398 SPECIAL TOPICS IN ACCOUNTING** provides a senior discussion, lecture, and/or research forum (including individual research) for special accounting subjects not addressed by the regular curriculum. Prerequisites: ACCT 311. 3 credits.

**ACCT 420 AUDITING** presents the philosophy, concepts, and techniques utilized by independent auditors; covers professional ethics and legal relationships; evaluates and reports on internal control as applied to the planning and implementation of the auditing process; and formulates substantive testing procedures from a study and analysis of required auditing objectives and internal control structure. Prerequisites: ACCT 311. 3 credits.

### ART EDUCATION

**AE 102 FOUNDATIONS OF ART EDUCATION** introduces the historic and philosophic bases of education and art education and examines relationships between those bases and current practice. Students explore the methodologies of visual learning including the use of contemporary technologies and complete Portfolio I requirements. 3 credits.

**AE 235 ELEMENTARY ART EDUCATION: THEORY AND PRACTICE** introduces the rationale and methodologies for teaching art at the elementary level within the context of child development. Topics include the role of the arts in elementary education, child development and visual learning, the design and application of developmentally appropriate curricula, and effective classroom strategies. Taught concurrently with AE 237. Prerequisite: ART 141. 2 credits.

**AE 237 STRATEGIES FOR MAINSTREAMING IN ART EDUCATION** introduces art education majors to the various types of learners in the art education classroom. Students will receive instruction in classroom management and teaching strategies for students with special needs. Taught concurrently with AE 235. Prerequisite: AE 235. 1 credit.

**AE 335 SECONDARY ART EDUCATION: THEORY AND PRACTICE** introduces the rationale and methodologies for teaching art at the secondary level based upon an understanding of preadolescent and adolescent development. Topics include the role of arts activities in secondary education, preadolescent and adolescent development, the design and implementation of developmentally appropriate curricula, evaluation processes, and effective classroom strategies. Prerequisites: AE 235 and acceptance into the Art Education Program. 3 credits.

**AE 340 CURRICULUM DESIGN FOR ART EDUCATION** introduces students to the structure and design of curricula for effective art education. Students examine a variety of existing curriculum guides for coherence, sensitivity to the developmental growth of children, interdisciplinary strategies and clear delineation of classroom practice. Students will develop and implement unit and lesson plans. Prerequisites: AE 235 or consent of the instructor. 3 credits.

**AE 342 ART EDUCATION: STUDIO PRACTICES** provides senior Art Education majors with the opportunity to explore a range of instructional strategies and to test those strategies with children in a supervised classroom setting. Students discuss art education methodologies, materials, and techniques and implement those methodologies and practices with a group of children from the local community. Prerequisites: AE 235, AE 237 and AE 335. 3 credits.

### ANTHROPOLOGY

**ANTH 201 CULTURAL ANTHROPOLOGY** seeks to depict and explain the diverse and universal characteristics of human behavior with regard to ecological and socio-cultural factors such as language, gender roles, marriage/family practices, modes of subsistence, political and economic structures, religion, and art. The students will participate in ethnographic research through personal fieldwork experience and interactive multimedia with application to current issues in anthropology today. 3 credits.

### ART

**ART 110 DESIGN FUNDAMENTALS** applies human perceptions of design in nature to the organization of 2-dimensional pictorial space. Students learn the language of 2D design and develop critical skills in image manipulation and visual communication through a series of exercises in black and white. Includes experience with digital media. Fulfills creative arts requirements in the Elective Core. Studio Fee. 3 credits.

**ART 111 2D COMPOSITION** is geared to the specific needs of graphic design, illustration, photography, art and communication majors. Students progress through an accelerated series of exercises in black and white media in order to acquire the language of design and successfully use it to manipulate existent imagery, create original designs and apply design principles to visual communication. Includes experience with digital media. Studio Fee. 3 credits.



**ART 131 PHOTOGRAPHY I** introduces students to the fundamentals of photographic composition and digital camera techniques. Topics include camera operation, composition, lighting techniques, and the history of photography. Students should have access to a digital camera. Fulfills creative arts requirements in the Elective Core. Studio Fee. 3 credits.

**ART 141 DRAWING FUNDAMENTALS** provides instruction in basic drawing for students with little or no previous drawing experience. Students learn the language of drawing, composition, strategies for solving basic perceptual problems, and the depiction objects from life within the 2D picture plane. Includes experience with variety of black and white media and an introduction to color media. Fulfills creative arts requirements in the Elective Core. Studio Fee. 3 credits.

**ART 145 DRAWING I FOR ART MAJORS** offers rigorously paced instruction in drawing as the basis of a strong foundation experience for art, art education, graphic design, illustration and interior design majors. Technical proficiency, perceptual accuracy and visual communication are stressed as students explore perceptual and conceptual issues through a variety of black and white media. Prerequisite: Must be an Art department major. Studio Fee. 3 credits.

**ART 149 CALLIGRAPHY AND ILLUMINATION** introduces students to the fundamental techniques of handlettering with the pen and brush. The focus of the course is on skill development and building an awareness of the historical context of various styles of lettering. Fulfills creative arts requirements in the Elective Core. Studio Fee. 3 credits.

**ART 151 ART FUNDAMENTALS** provides an introduction to studio art processes and art appreciation. A variety of two-dimensional and three-dimensional media are explored along with problems related to perception, design, technique, aesthetics, art history and art criticism. Fulfills creative arts requirements in the Elective Core. Studio Fee. 3 credits

**ART 210 3D DESIGN** builds upon previously acquired design skills through the exploration of three-dimensional spatial relationships. Students extend design principles to communicate ideas successfully through variety of 3D media. Prerequisite: ART 110 or 111. Studio Fee. 3 credits.

**ART 222 OUTDOOR DRAWING AND PAINTING** explores a variety of drawing and painting techniques in the outdoor setting. Students receive individualized instruction as they explore their choice of media in a variety of outdoor settings both on and off campus. Prerequisites: ART 141, 142, or 151, or consent of instructor. Studio Fee. 3 credits. Access to transportation helpful.

**ART 225 HISTORY OF ARCHITECTURE** studies the development of architectural spaces from prehistory to the present. Areas of emphasis include the history of church architecture and significant architectural monuments in the Milwaukee area. Activities include local travel and some architectural rendering. Studio Fee. 3 credits.

**ART 230 PRINTMAKING STUDIO I** offers studio experience in basic printmaking processes including monotype, relief, reduction, intaglio, aquatint, and silkscreen. Students utilize printmaking media such as waterbased ink, linocut, Easycofo, acid bath, zinc plates, stencil film and blockout to extend their visual communication skills and produce limited or multiple edition prints. Prerequisite: Art 141 or 142 or consent of instructor. Studio Fee. 3 credits.

**ART 231 PHOTOGRAPHY II** explores advanced techniques of photographic composition and black and white darkroom processes. Topics include the zone system, advanced lighting techniques, studio photography, portfolio production, and the history of photography. Prerequisite: ART 131. Studio Fee. 3 credits.

**ART 245 DRAWING II (Assorted Media)** extends basic skills learned in Drawing I to assorted media including pencil, colored pencil, pastel, charcoal, pen and ink, brush and ink, and conté. Students explore traditional forms of drawing such as still life, the human figure, self portraiture and landscape as they move toward engagement with more open-ended pursuits that require them to confront their own artistic sensibilities, reactions and concerns through mixed media. Offered in Spring semester of years ending in an even number. Prerequisite: ART 141 or 142. Studio Fee. 3 credits.

**ART 258 CERAMICS I** provides an introduction to clay techniques for the production of vessels, both functional and aesthetic. Students receive instruction in design, handbuilding, throwing on the potter's wheel, glazing and firing. Prerequisites: ART 141, 142, 151, or 210, or consent of instructor. Studio Fee. 3 credits.

**ART 265 ACRYLIC PAINTING** provides an introduction to the techniques of acrylic painting. Topics include concept development, preparation of the ground, color theory, paint application, and critical analysis. Prerequisite: ART 141, 142, or 151, or consent of instructor. Studio Fee. 3 credits.

**ART 275 SCULPTURE I** introduces students to the language, techniques and basic processes of sculpture. Media covered include clay, wax, plaster, wood, and stone. Prerequisites: ART 141, 142, or 110, or consent of instructor. Studio Fee. 3 credits.

**ART 276 SCULPTURE II** extends skills acquired in Sculpture I through the exploration of a variety of media including stone, wood, metal, plaster and mixed media, and techniques such as carving, casting, modeling and assemblage. Students are challenged to develop and pursue individual interests/themes or media in three dimensions. Offered only in the fall semester of years ending in an even number. Prerequisite: ART 275. Studio Fee. 3 credits.

**ART 285 ART HISTORY I** studies the major stylistic periods in the history of art, prehistory to early Renaissance, as viewed from our perspective within western Civilization. Emphasis is placed on the events, forces, personalities, philosophies and beliefs underlying each successive style, generating a structure for interpretation and evaluation. Offered only in fall semester of years ending in an odd number. Studio Fee. 3 credits.

**ART 286 ART HISTORY II** studies the major stylistic periods in the history of art, Renaissance to contemporary, as viewed from our perspective within western Civilization. Emphasis is placed on the events, forces, personalities, philosophies and beliefs underlying each successive style, generating a structure for interpretation and evaluation. Offered only in spring semester of years ending in an even number. Studio Fee. 3 credits.

**ART 290 APPLIED DESIGN: LOOM WEAVING** introduces the heritage art of weaving as students learn the steps necessary to prepare a warp, dress it onto a floor loom, and weave. Includes instruction in loom terminology and function, process of warping and threading, basic methods of pattern drafting and designing, fiber selection and finishing techniques. No Prerequisite. Studio Fee. 3 credits.

**ART 291 APPLIED DESIGN: STAINED GLASS** provides an introduction to the art of creating leaded glass windows. Students receive instruction and practice in design, glass cutting, assembly, installation and repair. Historical and contemporary techniques are discussed. Prerequisite: ART 151. Recommended: ART 110. Studio Fee. 3 credits.

**ART 294 APPLIED DESIGN: JEWELRY** explores a variety of media that may be used for personal adornment. Basic jewelry design, techniques and production will be covered as students experience a variety of processes that may include clay modeling, casting, metalwork, stone setting, found object assemblage, enameling, and sculpture. Prerequisite: Any 100 level art course. Studio Fee. 3 credits.

**ART 295 APPLIED DESIGN: CLAY** explores a variety of techniques and processes involved in ornamental applications of clay. Possible areas of focus include jewelry, tiles, plaques and functional sculpture. Techniques and materials may include primitive firing techniques, slip casting, Egyptian paste, colored clays, and slip and glaze application. Prerequisite: Any 100 level art course. Studio Fee. 3 credits.

**ART 298 APPLIED DESIGN: METALS/JEWELRY** explores a variety of metalworking techniques including cutting, soldered construction, casting and finishing. Students learn basic properties of fine metals and techniques for creating one of a kind jewelry and metal art. Prerequisite: Any 100 level art course. Studio Fee. 3 credits

**ART 310 HISTORY OF DESIGN** is a survey of the impact of various technologies on the visual qualities of design including but not exclusive to graphic, advertising, fashion, architecture, and industrial design. This course covers two-dimensional and three-dimensional design from the beginnings of written language and handmade books to the printing press, the Victorian Arts and Crafts Movement and eventually the contemporary computer age. Offered only in spring semester of years ending in an even number. Prerequisites: Art History I and II. Studio Fee. 3 credits.

**ART 330 PRINTMAKING STUDIO II** extends skills developed in Printmaking I through an in-depth study of printmaking media and/or the examination of new technique(s). Students work closely with the instructor to develop and follow a personalized course of study. Prerequisite: ART 230. Studio Fee. 3 credits.

**ART 331 / 332 PRINTMAKING STUDIOS III-IV** offers an opportunity for independently motivated students with a high interest in printmaking processes to select one medium for in-depth exploration. Students work closely with the instructor to develop and follow a personalized course of study. Prerequisite: ART 330. Studio Fee. 3 credits.



**ART 345 DRAWING III FIGURE STUDY** offers in-depth drawing instruction and investigation related to portraying the human figure in art. Students study historical precedents focus on anatomical issues as complemented by experimentation with a variety of media and compositional issues. Prerequisite: ART 141, 142, or 245. Studio Fee. 3 credits.

**ART 358 CERAMICS II** offers advanced opportunities for students to achieve mastery in the production of wheelthrown forms, pottery design, and glaze production. Other processes for exploration may include raku and low saltfire. Prerequisite: ART 258. Studio Fee. 3 credits.

**ART 365 WATERCOLOR PAINTING** introduces students to traditional and contemporary watercolor techniques. A variety of conceptual problems and techniques will be explored in studio activities. Offered during fall semester of years ending in an odd number. Prerequisite: ART 141, 142, 151, or consent of instructor. Studio Fee. 3 credits.

**ART 381 AESTHETICS** studies a range of issues within the philosophy of art. Topics related to art, the artist, the aesthetic object, the audience, art criticism, and interpretation will form the basis of classroom discussion. The work of a wide variety of writers will be considered. Prerequisites: ART 285, ART 286. Crosslisted as PHIL 381. Studio Fee. 3 credits.

**ART 383 HISTORY OF PHOTOGRAPHY** covers the development of photographic processes and applications throughout history. Discussion and assignments cover influential figures and techniques from the early beginnings of photography through contemporary trends. Prerequisites: Art History I & II. Studio Fee. 3 credits

**ART 401 INDEPENDENT STUDIO ART I** offers the highly motivated, self directed art student a unique opportunity to explore an area of personal interest in depth. Students meet regularly with an instructor for guidance as they plan and execute their individualized course of study. Prerequisites: Consent of instructor. Studio Fee. 1 - 3 credits.

**ART 402 INDEPENDENT STUDIO ART II** offers the highly motivated, self directed art student a unique opportunity to explore an area of personal interest in depth. Students meet regularly with an instructor for guidance as they plan and execute their individualized course of study. Prerequisites: ART 401 and consent of instructor. Studio Fee. 3 - 6 credits.

**ART 430 ART INTERNSHIP** offers the independently motivated art student an opportunity to gain firsthand field experience in a particular area of interest or study while earning university credit. Students are responsible for making appropriate arrangements receive credit for internships, at the rate of 15 per credit. Hours vary and are flexible as per arranged between student and site supervisor. Prerequisite: Consent of instructor. 3 credits. Additional information on internship opportunities may be found at [www.cuw.edu](http://www.cuw.edu)

**ART 450 SENIOR PORTFOLIO** guides the student in the preparation of a professional portfolio. In this capstone course, students assemble appropriate documentary evidence of their skills and prepare an exhibit of their work in the CUW Art Gallery. Prerequisite: Status as an Art, Graphic Design, Illustration or Photography major in their final semester. Studio Fee. 1 credit.

## BIOLOGY

All 4 credit courses include a lab

**BIO 140 GENERAL BIOLOGY I** is an introductory course which contains a heavy emphasis on the cell, its structures, and the processes which take place inside the smallest of living units. 4 credits.

**BIO 142 GENERAL BIOLOGY II** studies the biological processes that occur at the system level in both plants and animals. Topics such as transportation, organism control, nutrient breakdown and utilization will be compared in different organisms. 4 credits.

**BIO 146 ESSENTIALS OF ANATOMY & PHYSIOLOGY** is a course for non-biology majors. It surveys the major organ systems in the human body from both a structural and functional perspective and includes a lab. 4 credits.

**BIO 150 FUNCTIONAL HUMAN BIOLOGY I** is an introduction to the cellular processes that occur in the human body with an emphasis on cellular composition/structure, biochemistry and genetics. It is designed for students in the pre-pharmacy program. 4 credits.

**BIO 152 FUNCTIONAL HUMAN BIOLOGY II** is a continuation of BIO 150 with emphasis on the structure and function of selected human organ systems. 4 credits.

**BIO 240 ZOOLOGY** is a survey of the animal kingdom and study of the biology of animals in their natural environment. Prerequisite: BIO 140 or BIO 270/271. 4 credits.

**BIO 244 BOTANY** is an in-depth study of the plant kingdom with emphasis on the study of plants in their natural habitat. Prerequisite: BIO 140 or BIO 270/271. 4 credits.

**BIO 249 MEDICAL MICROBIOLOGY** introduces students to the biology and role that bacteria, viruses and eukaryotic microbes play in human health and disease. Prerequisite: CHEM 205. 4 credits.

**BIO 256 ENVIRONMENTAL SCIENCE** is a study of the effects man has on his surroundings through a basic understanding of ecological, biochemical, and physical systems in nature. Cross-listed (Global Environmental Issues) GEOG 356. 4 credits.

**BIO 260 BIOLOGY OF MICROORGANISMS** focuses on the biology and genetics of organisms too small to be seen by the human eye. Students will be introduced to the roles bacteria, viruses, and eukaryotic microbes play in the environment and human disease. Prerequisite: one year of chemistry. 4 credits.

**BIO 270 HUMAN ANATOMY AND PHYSIOLOGY I** begins by examining the basic structures of life, the cells and tissues. It studies the structure and function of four major systems of the human body: the integumentary system, skeletal system, muscular system, and nervous system. This laboratory course is primarily but not exclusively designed for nursing and psychology students. 4 credits.

**BIO 272 HUMAN ANATOMY AND PHYSIOLOGY II** is a continuation of BIO 270 and examines the endocrine, circulatory, respiratory, digestive, excretory, and reproductive systems and also the basics of nutrition. 4 credits.

**BIO 275 PRINCIPLES OF ANATOMY AND PHYSIOLOGY I** investigates the nature of the cell and the basic tissues of the body. It then focuses on the integumentary, skeletal, muscular, and nervous systems with an emphasis on the latter three. This laboratory course is primarily but not exclusively designed for students majoring in athletic training and physical education. 4 credits.

**BIO 276 PRINCIPLES OF ANATOMY AND PHYSIOLOGY II** is a continuation of BIO 275 and examines the endocrine, circulatory, respiratory, digestive, excretory, and reproductive systems with an emphasis on the circulatory and respiratory systems and nutrition. 4 credits.

**BIO 280 FUNCTIONAL ANATOMY AND PHYSIOLOGY I** is an in-depth study of normal human anatomy & physiology and some common pathologic states. This course begins with a study of the cell and cellular processes and tissues. It continues with investigation of the integumentary, skeletal, muscular, and nervous systems. Lab work includes exercises using light microscope slides, computer-based physiology data collection and analysis, dissection working both individually and with partners. This course is targeted to biology majors and biomedical science majors. 4 credits.

**BIO 282 FUNCTIONAL ANATOMY AND PHYSIOLOGY II** is a continuation of BIO 280 and provides students with an in-depth study of the endocrine, circulatory, respiratory, digestive, excretory, and reproductive systems, and concludes with a study of basic human development. 4 credits.

**BIO 285 PATHOPHYSIOLOGY** introduces the student to the study of the etiology, pathogenesis and clinical manifestations of common disease processes. Basic principles into the mechanism of cellular and tissue injury is followed by presentations of common diseases in the various organ systems. Prerequisites: BIO 270, 271, 272 and 273 or BIO 140 and 142. 3 credits.

**BIO 321 CELL BIOLOGY** provides a more detailed study of the relationships between cellular structure and function. Cell biology is designed to complement the material covered in BIO 348 Genetics. Emphasis will be placed on proteins and enzymatic reactions, plasma and cellular membranes, cytoskeleton and cell motility, cellular interactions with the environment, and cell division. Prerequisites: 12 hours. biology, 8 hours. chemistry. 3 credits.

**BIO 322 PATHOPHYSIOLOGY / NURSING** explores a variety of altered health states and studies variances from wellness in man including general mechanisms and systemic manifestations of altered health states as studied across the lifespan. 4 credits.

**BIO 348 GENETICS** is a study of Mendelian, molecular, and population genetics. Prerequisites: 12 hours of biology and MATH 205. 4 credits.

**BIO 351 IMMUNOLOGY** introduces the upper level biology student to the principles of the adaptive and innate immune systems and how these systems protect against and cause disease. Emphasis is placed on how the cells of the immune system recognize and eliminate foreign invaders from the human body. Prerequisites: 12 credits in biology, 8 credits in chemistry. 3 credits.

**BIO 367 ECOLOGY OF THE TROPICS** is a field study of tropical habitats and organisms as well as their interactions with humans. Requires class travel to the Caribbean or Central America. Students will experience the influence of Spanish, French, Dutch, British, African, and US cultures on this diverse region. Crosslisted (Caribbean): GEOG 367. 3 credits.

**BIO 368 TROPICAL ECOLOGY LAB** provides laboratory experience that complements BIO 367. BIO 367 and BIO 368 together fulfill the core lab science requirement. 1 credit.

**BIO 370 ORNITHOLOGY** is a field oriented course designed to study birds in their natural habitat. The position of birds in the animal kingdom is studied along with their anatomy, physiology, and behavior. Fall semester - 4 credits. Prerequisite BIO 240.

**BIO 381 HISTOLOGY** is a study of tissues present in the human body. Basic tissue types are analyzed and special emphasis is placed on how these tissues interact as components of organs. 3 credits.

**BIO 385 COMPARATIVE ANATOMY** is a study of comparative vertebrate morphology, focusing on the relationships between form, function and the biological role of body structures. Organization of the vertebrates will be discussed within a phylogenetic framework. The course will include dissection of representative vertebrate species. Prerequisites: BIO 272 & 273 or BIO 240. 3 credits.

**BIO 399 BIOLOGY INTERNSHIP** provides credit for biology majors who obtain laboratory or field experience outside of the typical academic environment. The experience must be approved in advance by the Chair, Dept. of Natural Sciences. Prerequisite: 16 hrs. of biology. Up to 4 credits per experience.

**BIO 410 ECOLOGY** is a study of the interactions between the organism and its environment. Ecology surveys the biotic and abiotic environments, ecosystem types, population ecology, community structure, and succession. Prerequisite: BIO 140, BIO 240, BIO 244, and MATH 121. 4 credits.

**BIO 417 PLANT ANATOMY** is the study of the internal structure of the stems, roots, and leaves of extant seed plants. Angiosperms are emphasized, but some features of gymnosperms are also reviewed. The anatomy of the flower, fruit, and seed of angiosperms is also studied. Prerequisite: BIO 240. 4 credits.

**BIO 425 BIOCHEMISTRY** covers how atoms and molecules interact to produce life processes. Topics include thermodynamics and the chemistry of biomolecules, the mechanisms of enzyme action, and metabolic processes. Laboratory covers fundamental biochemical techniques including such things as protein purification, enzyme analysis, and gel electrophoresis. Prerequisites: 8 hours biology, 8 hours chemistry. Crosslisted: CHEM 425. 4 credits.

**BIO 435 DEVELOPMENTAL BIOLOGY** provides an overview of the processes of vertebrate and invertebrate animal development. Topics covered include fertilization and morphogenesis, mechanisms of cellular differentiation, genetic control of development, pattern and body axis formation. Students will examine a variety of embryos including sea urchin, salamander, frog and chick. Prerequisites: BIO 270, 271, 272, and 273 OR BIO 140 and BIO 240. 3 credits.

**BIO 444 SYSTEMATICS** is the study of the principles of identifying, naming, and classifying biological organisms. Students will be introduced to morphologic keys which are used to identify field specimens. Students are also introduced to the biochemical and molecular methods that are being increasingly used to identify plants and animals. Prerequisite: 16 hours of biology. 4 credits.

**BIO 450 HUMAN ANATOMY** is an integrated approach to the gross anatomy of the human body, with particular emphasis on the musculoskeletal and nervous systems. Consideration will also be given to the study of cells, tissues, and organ systems. The laboratory portion of the course consists of supervised dissection of human cadavers and includes the study of living subject anatomy. Prerequisites: Admission to the Program in Physical Therapy or Program in Occupational Therapy or consent of instructor. 6 credits.

**BIO 460 FUNCTIONAL NEUROANATOMY** covers basic principles of human nervous system structure and function. Both the central and peripheral portions of the nervous systems will be addressed. The laboratory focuses on examination of the human brain and small group analysis of patient case studies. Prerequisite: BIO 450. 3 credits.

**BIO 470 HUMAN PHYSIOLOGY** focuses on medical physiology with emphasis on cellular and organ system physiology. Functions of circulation, respiration, heat regulation, water balance, neuromuscular mechanisms, neural and endocrine integration will be included. Prerequisites: two semesters of Biology. 4 credits.

**BIO 485 PATHOLOGY** covers the etiology and pathology of human disease. Special emphasis on injury and healing of musculoskeletal tissues, infection and wound healing. Current theories of pain and the study of the immune system will be incorporated. Prerequisite: BIO 470. 3 credits.

**BIO 490 BIOLOGY SEMINAR** looks at current issues in biology by evaluating the biological literature. A general topic area is selected each semester and presentations are made by students, faculty, and outside speakers. Junior status. Can be taken up to four times for credit. 1 credit.

**BIO 536/836 ADVANCED PATHOPHYSIOLOGY** explores basic cellular mechanisms that occur following cell injury and relates these mechanisms to the etiology, pathogenesis, and clinical manifestations of common disease processes. A thorough knowledge of anatomy and physiology is essential to the study of pathophysiology. 3 credits.

**BIO 542 PHARMACOTHERAPEUTICS** explores the principles underlying the pharmacokinetic and pharmacodynamic actions of drugs. These principles are used to enhance understanding of the pharmacology of major drug groups with emphasis on the application of pharmacodynamics of these drugs to patient care situations. A thorough knowledge of pathophysiology is essential to the study of pharmacotherapeutics. 4 credits.

**BIO 610 PHYSIOLOGY OF HUMAN PERFORMANCE** assesses the effects of acute and chronic exercise on the major physiology systems. This course will contribute to the student's understanding of energy transfer and cellular metabolism at rest and during exercise. Discussion of the systems of energy delivery and utilization and their physiologic adjustments to exercise will provide a sound basis for formulating a proper training program and evaluating the effectiveness of such training. Methods to enhance performance using the knowledge of the systems of energy delivery, transfer, utilization, and nutrition will be covered. Finally, the role of exercise in relation to body composition, weight control, and optimal health in normal and in disease states throughout the life span will be discussed. The lab will focus on procedures for conducting numerous physical performance tests and measurements, as well as how the test results can be used for exercise prescription, designing wellness programs and enhancing client well-being. 3 credits.

## BUSINESS

**BUS 130 PRINCIPLES OF MANAGEMENT** examines the principles and functions of management with an integration of line and staff relationships, theories of management, authority and responsibility, centralization and decentralization, team building, and developing policies, strategies, and tactics. 3 credits.

**BUS 210 BUSINESS LAW I** offers an introduction to the American Legal System and several specific legal topics including, but not limited to, criminal law, torts, employment law and discrimination, agency, contracts and sales. 3 credits.

**BUS 310 BUSINESS LAW II & ETHICS** examines several areas of business law including negotiable instruments, property, and business organizations. Fundamental principles of ethics and their application to common business situations are also examined during the course. 3 credits.

**BUS 315 BUSINESS STATISTICS** will provide students with a working knowledge of statistics, which will be help them make proper business decisions under uncertain conditions. Areas to be covered include descriptive statistics, probability, inferential statistics, discrete and continuous probability distributions, and regression analysis. 3 credits.

**BUS 336 HUMAN RESOURCES MANAGEMENT** studies the functions and contributions that the Human Resources Department makes in the operation of a business. Emphasis is placed on historical and present day activities of the discipline including staffing, nurturing, performance appraisal, compensation and problem resolution regarding employees. The overall business environment is recognized as a problem source. 3 credits.

**BUS 340 ORGANIZATIONAL BEHAVIOR** investigates the impact that individuals, groups, and structure have on the behavior within organizations for the purpose of improving organizational effectiveness. Prerequisite: ACCT 102, and BUS 130. 3 credits.

**BUS 355 MANAGEMENT INFORMATION SYSTEMS** presents an overview of the management information system. This course examines total organizational effort required in the management function. Topics of special interest include communication and systems theory, accounting cycles and applications systems, costs of data processing software and hardware, systems control and systems design. Prerequisites: ACCT 102 and BUS 130. 3 credits.

**BUS 360 SMALL BUSINESS ADMINISTRATION** studies the problems and opportunities of managing a small company. Specific concerns of retail, service and small manufacturing firms are addressed. Location selection, financing, and operations are investigated. Prerequisite: BUS 130. 3 credits.

**BUS 398 SPECIAL TOPICS IN BUSINESS** provides a discussion, lecture, and/or research forum (including individual research) for special business subjects not addressed by the regular curriculum. Prerequisites: BUS 130. 1-3 credits.

**BUS 399 INTERNSHIP** provides credit for a pre-approved on-the-job work experience in the student's major field of study. Prerequisites: BUS 130, BUS 210, BUS 310, CSC 150, ACCT 102. 3-6 credits.

**BUS 450 INTERNATIONAL BUSINESS** is a systematic course concerned with the challenges, problems and opportunities that face corporations operating outside their domestic environment. The emphasis will be placed upon the basic principles, concepts and techniques relevant to international business management. Other than business issues generally discussed in the fields of economics, politics, finance, marketing and law, this course stresses the integration within a global business context. Prerequisite: BUS 130. 3 credits.

**BUS 453 BUSINESS POLICY** studies strategic policies of organizations. The focus of this course is to learn to see competitive strategic advantages through organizational design within different types of businesses. It looks at methods used by upper management to guide resource deployment to maintain competitive advantages in meeting the corporate mission. Where other prerequisite courses study segments of a business, this course studies the entire business structure strategically. Prerequisites: Senior Status or permission of professor. 3 credits.

## CHEMISTRY

All 4 credit courses include a lab.

**CHEM 205 ELEMENTS OF GENERAL AND BIOLOGICAL CHEMISTRY** introduces the student to the chemistry of the body and is primarily for students planning careers in professional, health care fields. Prerequisite: MATH 121. 4 credits.

**CHEM 210 INORGANIC CHEMISTRY I** introduces the student to general concepts of chemistry including atomic and molecular structure, reaction stoichiometry, thermodynamics, periodic trends, and gas laws. Prerequisites: Algebra and MATH 121. 4 credits.

**CHEM 213 INORGANIC CHEMISTRY II** is a continuation of Chemistry 210 including intermolecular forces, reaction kinetics, acid-base theory, equilibrium, electrochemistry, and nuclear chemistry. Prerequisite: CHEM 210. 4 credits.

**CHEM 240 ORGANIC CHEMISTRY I** introduces the student to organic synthesis and reaction mechanisms, focusing specifically on the chemistry of hydrocarbons and alcohols, acid-base chemistry, and stereochemistry. Laboratory investigations include fundamental techniques, synthesis, separation, and characterization of organic compounds. Prerequisite: CHEM 213. 4 credits.

**CHEM 242 ORGANIC CHEMISTRY II** is a continuation of Chemistry 240, covering instrumental analysis of organic compounds, chemistry of aromatic systems, carbonyl chemistry, and the chemistry of amines. Laboratory consists of several multi-week projects including multi-step synthesis and unknown identification. Prerequisite: CHEM 240. 4 credits.

**CHEM 325 ANALYTICAL CHEMISTRY** introduces the student to application of chemical principles for the purpose of chemical analysis as well as the many associated skills, such as sampling, sample preparation, treatment of data, etc., necessary to obtaining valid information on the composition of matter. Prerequisite: CHEM 213. 4 credits.

**CHEM 361 ENVIRONMENTAL CHEMISTRY AND TOXICOLOGY** This course is a study of how natural environmental processes are driven by chemical reactions and how these processes are affected by toxicants – natural as well as anthropogenic. Specific areas of concentration include the atmosphere, hydrosphere, energy, toxicology, and disposal of dangerous wastes. Prerequisite: 1 year of chemistry or permission of instructor. 3 credits.

**CHEM 425 BIOCHEMISTRY** covers how atoms and molecules interact to produce life processes. Topics include thermodynamics and the chemistry of biomolecules, the mechanisms of enzyme action, and metabolic processes. Laboratory covers fundamental biochemical techniques including such things as protein purification, enzyme analysis, and gel electrophoresis. Prerequisites: 8 hours biology; 8 hours chemistry. Cross listed: BIO 425. 4 credits.

## CHINESE

**CHIN 101 BEGINNING CHINESE I** is designed for students who have no formal learning of Mandarin Chinese. Students will develop skills in listening and speaking with some introduction to reading and writing Chinese characters as well as Chinese culture. 4 credits.

## COMMUNICATION

**COMM 105 PUBLIC SPEAKING** (new title replaces The Spoken Word) considers the fundamentals of giving speeches that are informative, persuasive, inspirational, or entertaining. Students learn to manage speech tension, use vocal variety, improve delivery, and organize and support effective presentations with research and visual aids. 3 credits.

**COMM 191 BEACON** requires acceptable work on the student publication. Prerequisite: COMM 265 1 credit.

**COMM 193 WCUW** requires acceptable work with the student radio station. Prerequisite: COMM 351 or permission of instructor. 1 credit.

**COMM 201 INTERPERSONAL COMMUNICATION** studies why communication breaks down in interpersonal relationships, focusing on such topics as perception, self-concept, nonverbals, listening, gender, self-disclosure, power, and conflict. Assignments lead students to a greater awareness of their strengths and weaknesses as communicators. Cross listed PSY 201. 3 credits.

**COMM 205 ADVANCED PUBLIC SPEAKING** teaches the use of research, strategy, audience analysis, and technology to attain professionalism in presentations. Students apply speaking skills in an "after dinner" humor presentation, an informative PowerPoint lecture, a team debate judged by students, and in an inspirational or devotional presentation. 3 credits.

**COMM 223 PUBLIC RELATIONS** presents the theory and concepts of an ethical relationship between the enterprise and its public. Prepares students to take their place as contributing members of society by understanding the interrelationships between people, organizations, and institutions. The Christian perspective of the public relations function is emphasized. Cross-listed MKTG 223. 3 credits.

**COMM 247 BUSINESS WRITING** teaches how to write effective business letters, memos, articles, reports, advertisements, and resumes. Students learn to organize, format, and edit messages used in press releases, public relations, management, marketing, customer service, and organizational decision-making. 3 credits.

- COMM 250 INTRODUCTION TO MASS COMMUNICATION** acquaints the student with the basic forms of mass communication and the media through which messages are conveyed. Current media trends and their origins will also be studied. Prerequisite: ENG 104. 3 credits.
- COMM 265 JOURNALISM** introduces the student to the basic principles of journalistic writing, delving into the techniques of information gathering and good journalism. Prerequisite: ENG 104. 3 credits.
- COMM 280 CAREERS IN COMMUNICATION** is an introduction to career opportunities, educational/experiential paths, and requirements communication students need to address prior to education. These objectives are achieved through personal assessment, contact with working communication professionals, and planning. 3 credits.
- COMM 300 GROUP DYNAMICS** introduces students to key communication skills and issues that occur within small, task-oriented groups. Topics such as group formation, group development, roles, power, listening, conflict, decision making, problem solving, and leadership are presented via a wide variety of thought-provoking exercises. The course concludes with a major small-group project that leads into a class presentation and a reflection paper. Crosslisted SOC 300. 3 credits.
- COMM 321 MEDIA WRITING** introduces the student to the elements of good broadcast news writing; proceeding from the gathering of information to the writing of the scripts to broadcast news techniques. 3 credits.
- COMM 322 MULTIMEDIA DESIGN** presents an overview of multimedia design considerations including interface design, interactive narrative structure, preproduction planning of projects, integration of different media into a unified concept and aesthetic, and also examines the history and development of multimedia. Prerequisite: ART 110. 3 credits.
- COMM 329 HISTORY OF FILM** This course examines the development of motion pictures from its beginning to the present day. Films will be screened representing various movements, periods, and styles. 3 credits.
- COMM 330 THEORIES OF PERSUASION** examines the process of persuasion from both a sender's and a receiver's perspective. Students learn how to be better consumers and creators of persuasive messages that target beliefs, attitudes, values, and behaviors. This highly interactive course places a premium on experiential learning as students engage in several projects, including the creation of a hypothetical entertainment service that they "sell" to another class. Crosslisted: PSY 451. 3 credits.
- COMM 333 SERVANT LEADERSHIP** engages students in understanding and applying theory and skills grounded in the biblical concept of servant hood. Students are challenged to become effective leaders who value service, individual dignity, growth, and wholeness. A primary component of the course is a small-group service project. 3 credits.
- COMM 339 FILM AND VIDEO PRODUCTION** introduces students to the world of film and video production. Students learn the process involved in preproduction, production, and postproduction throughout the development of digital video productions. 3 credits.
- COMM 348 MULTIMEDIA PRODUCTION** allows students in this course to work on and help create multimedia projects. Prerequisites: ART 110 and COMM 322. 3 credits.
- COMM 351 RADIO PRODUCTION** introduces the student to the elements of radio broadcasting, and considers the history, equipment, and techniques of radio production. Prerequisite: COMM 250. 3 credits.
- COMM 354 GENDER AND COMMUNICATION** studies the differences women and men exhibit when communicating. Verbal and nonverbal differences are studied, including why such differences occur. Gender-specific issues in dating, education, the family, religion, and the work place will be discussed. A student project focusing on how the media stereotypes male and female roles is required. Cross-listed PSY 354. 3 credits.
- COMM 371 PHILOSOPHY AND FILM** is designed to help students understand how films are created, and to see how films can embody and express worldviews. Students learn to identify worldviews implicit in a film, and to discern whether the film's presentation is supportive or critical. They are also required to defend or critique the worldview itself. This course may be taken as the core class in Philosophical Foundations, and is cross-listed as COMM 371. 3 credits.
- COMM 380 ORGANIZATIONAL COMMUNICATION** is a study of how communication can detract from or improve productivity, profitability, morale, product quality, and efficiency in public and private organizations. Emphasis is placed on the role of communication in different approaches to leadership, decision-making, conflict management, worker effectiveness, employee motivation. 3 credits.
- COMM 385 INTERVIEWING PRINCIPLES** is the study of strategies and techniques used in journalistic, employment, counseling, and persuasive interviews, with emphasis placed on employment interviews. Topics to be covered include do's and don'ts in interviews, interviewing strategies, legal aspects of interviewing, and communication skills. 3 credits.
- COMM 390 CONFLICT MANAGEMENT** focuses on causes, types, and functions of conflict in family and work environments; the course reviews alternative tactics usable in conflict situations. Prevention of conflict and alternatives to resolving conflict are examined. Methods of dealing with tough individuals and situations are practiced and critiqued. Prerequisite: COMM 201. 3 credits.
- COMM 423 ADVANCED PUBLIC RELATIONS** applies and develops strategic writing skills in using advocacy, persuasion, empathy, audience analysis, team building, and cultural awareness in producing documents for use in corporate or nonprofit communications, online and newspaper journalism, marketing, investor relations, fund raising, internal communication, community relations, media relations, and crisis communication. Prerequisite: COMM 223. 3 credits.
- COMM 439 ADVANCED FILM AND VIDEO PRODUCTION** This course will concentrate on the development of semester-long student film or video projects, and the various stages of its preproduction, production, and post-production. Prerequisite: COMM 339: Film and Video Production. 3 credits.
- COMM 448 ADVANCED MULTIMEDIA PRODUCTION** goes more in-depth in the development of students' multimedia productions, and builds on the knowledge of the first production course. Students in this course will design and create their own multimedia projects. Prerequisites: ART 110, COMM 339, COMM 322, and COMM 348. 3 credits.
- COMM 460 CROSS CULTURAL COMMUNICATION** Students will examine the cultural diversity that exists locally, nationally and globally in order to develop a positive appreciation for the contributions of other cultures. Students will gain personal contact with members of other cultures and learn effective intercultural communication skills for our diverse world. Prerequisites: COMM 105 or 201, ENG 104. 3 credits.
- COMM 470 INTERNSHIP** includes acceptable work at a commercial communication enterprise. Prerequisites are explained in the internship packet, which may be obtained from any communication professor. 3-4 credits.
- COMM 490 SENIOR SEMINAR** allows students to demonstrate their communication competencies by writing a research paper related to their particular major and giving a public presentation. 3 credits.

## COMPUTER SCIENCE

- CSC 150 FOUNDATIONS OF COMPUTER SCIENCE** provides a survey and overview of computer science. The view of a computer system as a combination of hardware, software, and people is explored in detail. The computer system as a tool for personal and professional problem solving is emphasized. Foundational computer science concepts along with terminology, ethical issues, application, and hands-on computer use are explored. Students select a topic of interest as a term project to augment class discussion and laboratory experiences. CSC 150 serves as the foundation for all further CSC courses and has no prerequisites; it is therefore suitable for all students as an introduction to the fascinating world of computer science. Prerequisite: CSC 150 with a grade of B or better and the equivalent of MATH 128 (algebra). 3 credits.
- CSC 175 ADVANCED SOFTWARE APPLICATIONS** allows the student to develop expertise in applying computer systems to a wide variety of personal and professional problems. Analysis of problems and synthesis of computerized solutions is emphasized. A unit approach allows the integration of current events, technology, concepts and practice. Selected topics include: web design, creation and interfacing techniques using HTML, ASP and Java; data communications and computer security; database design and SQL programming; advanced issues in productivity software (eg, data conversion, macros, objects, etc); information management and presentation; modeling and simulation; and human computer interface issues. Prerequisite: CSC 150 with grade of C or better. 3 credits.



**CSC 250 COMPUTER SCIENCE, THEORY AND PRACTICE I** studies the foundational issues of computer programming in detail. The primary course emphasis is on computer control structures (selection, repetition, procedure, etc) — how they are mathematically derived in theory and applied in the practice of problem solving. Algorithms will be transformed into modern high-level languages (such as C++) by following professional programming techniques. Prerequisites: CSC 150 with grade of B or better, prior programming experience (such as CSC 175), and MATH 128 or equivalent. 3 credits.

**CSC 300 COMPUTER SCIENCE, THEORY AND PRACTICE II** explores advanced topics of computer programming in some detail. The primary course emphasis is on computer data structures (stacks, queues, linked-lists, etc) - how they are mathematically derived in theory and applied in the practice of problem solving. Additional concepts to be studied include: encapsulation, information hiding, data abstraction, and efficient representation and manipulation of data. CSC 300 is a continuation of CSC 250 using a similar programming environment. Prerequisites: CSC 250 and MATH 220. 3 credits.

**CSC 325 COMPUTER ORGANIZATION AND ARCHITECTURE** investigates the internal hardware function and structure of a computer in depth. The programmer's relationship to architecture and the computer scientist's relationship to organization are studied. Major topics include: peripherals (I/O and auxiliary storage), the processor (CPU and main memory), ALU (computer arithmetic), and the CU (computer instruction sets). Student will construct computer circuits from component chips and carry out programming assignments in assembly language. Prerequisite: CSC 300. 3 credits.

**CSC 350 COMPUTER OPERATING SYSTEMS** examines the foundational concepts, functions, and structure of operating systems. The primary operating system jobs of resource management, interfacing, and command interpretation are studied in depth. The roles of computer scientist and systems software are investigated using both a microcomputer operating system and a large computer operating system. Students carry out a systems level programming project. Prerequisite: CSC 300. 3 credits.

**CSC 370 SOFTWARE ENGINEERING** affords the student the opportunity to explore the art and science of the programming process in great detail. Principles of design, support and management of software projects are investigated. The software development lifecycle is used as a vehicle for the study of the software development process from conception through birth and into maintenance, with an emphasis on design considerations, user and developer documentation, coding tools, and quality assurance. Actual programming projects are analyzed along with current research in the field. Two major software projects, one individual and one team, are synthesized by students using "professional programming practice." Knowledge of the programming environment utilized in CSC 300 is required. Prerequisite or Corequisite: CSC 300. 3 credits.

**CSC 390 SPECIAL TOPICS IN COMPUTER SCIENCE** treats new and interesting topics developed in computer science. Course content varies by semester. May be repeated with change of topic and consent of department chair for additional credit. Prerequisite: CSC 300. 1-3 credits.

**CSC 400 INTERNSHIP** consists of supervised work in a given area of computer science in an industrial or business setting. The topic of the internship is determined in conjunction with the responsible faculty, the on-site supervisor, and the student. 1 credit.

**CSC 425 COMPUTER ORGANIZATION AND ARCHITECTURE II** is a continuation of CSC 325. Advanced topics in organization and architecture are treated in depth. Concepts include: external interfacing, bus design, CU and ALU function and structure and parallel processing. Students will specify, design, and construct a hardware project. Prerequisite: CSC 325. 3 credits.

**CSC 450 SYSTEMS SOFTWARE** examines system-level software in depth: with an emphasis on translation software and data base systems. The interaction between systems-level software and the computer hardware is studied. The role of computer scientist in abstracting the hardware from the computer user is explored. Prerequisites: CSC 325 and CSC 350. 3 credits.

**CSC 470 PROGRAMMING LANGUAGES** surveys major topics in the design, analysis, implementation and use of high-level languages. The four major programming paradigms are studied (procedural, functional, object, and declarative). Programming projects in each paradigm are implemented. Prerequisites: CSC 300 and CSC 370. 3 credits.

**CSC 490 SENIOR SEMINAR I** provides the student the opportunity to explore the Grand Ideas of computer science in a systematic way. Senior computer science students will be exposed to a variety of fundamental computer science concepts within a sound philosophical framework. Current events and small scale projects will augment and reinforce computer science concepts. The senior computer science assessment examination will be administered in this course. Finally, groundwork preparation for the CSC 491 project will be laid. Prerequisite: Senior Standing in CS (consent of department chair). 3 credits.

**CSC 491 SENIOR SEMINAR II** provides the student the opportunity to showcase computer science problem solving skills by synthesizing an acceptable project. Students choose an acceptable problem and then fully implement the solution to that problem following professional programming practice. Students present their progress and project in both written reports and oral presentations. Prerequisite: CSC 370 at CUW, CSC 490. 3 credits.

## DIAGNOSTIC MEDICAL SONOGRAPHY

### Columbia St Mary's Diagnostic Medical Sonography Program

**FOUNDATIONS OF SONOGRAPHY - 3 credits** This course introduces the student to the services and policies of Columbia St. Mary's, the Medical Imaging Department and its training programs. Basic methods of sonographic equipment operation, patient safety, departmental procedures, basic cross-sectional anatomy, basic medical and ultrasound terminology, and introduction to ultrasound scanning are stressed.

**PHYSICS I - 3 credits** The student will learn the preliminary physics necessary to understand the components required for the production of Diagnostic Ultrasound. The student will also be provided with the knowledge to understand how sound waves interact with the tissue and how the system generates an image.

#### ABDOMEN ULTRASOUND I - 3 credits

**ABDOMINAL VASCULAR SYSTEM** This class is designed to provide the student with knowledge pertaining To The abdominal vessels. This may be the student's first experience Of looking at anatomy with depth. Using the vessels as a road map they will learn their way through the upper abdomen.

**RETROPRITONEUM** Will acquaint student with the anatomy and physiology of the adrenals and the lymphatic system as well as the different types of abscesses and other fluid collection that can be found throughout the body.

**OB ULTRASOUND I - 3 credits** Course will acquaint the student with the miracle of life. Starting with fertilization, continuing on to the embryonic period and organogenesis. The problems of a first trimester pregnancy will be covered as well as the sonographic appearance of these problems and the sonographers role in these situations.

**OB MEASUREMENTS** The goal of this course is to teach the student how to comprehend the importance of accurate fetal measurements and the role they play in the diagnosis of fetal problems.

#### GYN ULTRASOUND I - 3 credits

**GYN ANATOMY** Enables the student to able to identify the normal anatomy and Vasculature in the female pelvis and provide them with the patient preparation and protocol for a pelvic ultrasound.

**TRANSVAGINAL SCANNING** This class will teach the student the advantages, as well as the disadvantages of using a vaginal probe. Patient position, precautionary measures and scanning techniques will be some of the key points.

**PHYSICS II - 3 credits** In this course the student will continue to build onto the foundation of Physics I. They will learn about the construction and operation of the ultrasound transducer, its beams and focusing, automatic scanning and resolution.

**ABDOMINAL ULTRASOUND II - 3 credits**

**LIVER** The Goal of this course is to understand the composition and function of the liver. Being able to differentiate between normal and abnormal liver parenchyma. To enable the student to achieve the different views and patient positions needed to produce a quality exam.

**GB, BILIARY SYSTEM, AND SPLEEN** Is a study of the function of the GB, biliary tree, and spleen. It will bring together the use of the patients clinical and laboratory data along with the ultrasound exam in order to help confirm the patients diagnosis.

**PANCREAS** Provides the knowledge of the composition, function and ultrasound appearance of the pancreas. To be able to differentiate between normal and abnormal anatomy. To enable them to appreciate the use of different views and patient positions needed to produce a quality pancreas exam.

**OB II - 3 credits**

**PLACENTA AND CORD** The goal of this course is to be able to identify a normal placenta, determine placental size, grade, and position. Know if the placenta is abnormal and what the differentials might be. Be able to differentiate between a two and three vessel cord and identify other cord anomalies.

**MULTIPLE GESTATION** Examines the different types of twinning as well as the risk factors involved with both the mother and the babies. Provides the protocol that is required with a multiple gestation.

**MATERNAL AND FETAL COMPLICATIONS** This class will cover amniotic fluid, its sources, and causes for polyhydramnios and oligohydramnios. As well as some of the maternal problems in pregnancy, such as, IUGR, immune and nonimmune hydrops, Rh isoimmunization, diabetes, maternal hypertension, preeclampsia and eclampsia will also be covered. Ultrasounds role in the diagnosis of these problems will also be covered.

**GYN ULTRASOUND II - 3 credits**

**HORMONAL, OVARIAN, ENDOMETRIAL CYCLES, INFERTILITY AND POSTMENOPAUSAL WOMEN** Provided in this class is the understanding of the function of the female body throughout its monthly cycles. The problems and some of the solutions of infertility, as well as, some of the problems facing the postmenopausal women. The role of ultrasound in these areas is fascinating and ever changing.

**INFLAMMATORY DISEASE, IUCD, AND MISC. PELVIC PATHOLOGIES** Examines the different types of pelvic infections, the route of these infections, and their differentials. Be able to identify the different types of congenital uterine anomalies, how they are imaged, and what other area of the body needs to be imaged if this anomaly is found. Be able to identify the different types of intrauterine contraceptive devices (IUCD).

**PHYSICS III - 3 credits** Provides the knowledge of imaging processing, the different types of ultrasound modes and methods of improving the ultrasound image using pre and post processing. To understand what an artifact is, be able to identify what type of artifact is present, and be able to eliminate the artifact if possible in order to achieve the best possible scan.

**ABDOMINAL ULTRASOUND III - 3 credits**

**RENAL** The goal is to understand the make-up and function of the urinary system. Being able to differentiate between a normal and abnormal exam, be able to initiate a color flow and Doppler study of the renal artery and vein and able to locate a transplanted kidney. To be able to appreciate the use of different views and patient positions that are needed to produce a quality exam.

**GI** Provide the knowledge of the normal and abnormal GI Tract and learn the function and sonographic appearance of the GI tract.

**TESTICULAR AND PROSTATE** This course will enable the student to recognize the sonographic features of the normal and abnormal prostate and testicle. To be able to perform a color flow study of the testicles. To know the correct patient position for both a prostate and testicular exam.

**BREAST** Study of the normal and abnormal anatomy of the breast and how ultrasound works in conjunction with mammography in order to give the patient the most accurate diagnosis.

**THYROID** To acquaint the student with the many functions of the thyroid gland and parathyroid glands and to know the normal and abnormal sonographic appearance of the thyroid and parathyroid glands.

**NEONATAL BRAIN** This course is designed to introduce the student to the normal and abnormal anatomy of the neonatal brain, as well as some basic scanning techniques.

**OB III - 3 credits**

**MATERNAL CONDITIONS AND FETAL ASSESSMENTS** The goal of this course is to familiarize the student with the different types of maternal infections as well as the invasive and non-invasive test that may require ultrasound. The student will be able to recognize the different signs of a fetal demise and how to handle the situation.

**FETAL ANOMALIES** This course will focus on each of the fetal systems. Enabling the student to be able to differentiate between normal and abnormal fetal anatomy. Knowing what anomalies can be imaged with ultrasound and at approximately what fetal age these anomalies can be detected.

**GYN ULTRASOUND III - 3 credits**

**UTERINE PATHOLOGY** This class is a study of uterine masses, both benign as well as malignant pathologies of the uterus will be covered.

**OVARIAN PATHOLOGY** Is a study of the different types of ovarian masses. These masses can be benign or malignant, variable in size, and have different consistencies.

**VASCULAR PHYSICS I - 3 credits** This course will provide the student with the knowledge of equipment care and how to set up a quality assurance program. The bioeffects of ultrasound will be covered in detail, in order to protect the sonographer, as well as their patients.

**VASCULAR TECHNOLOGY I - 3 credits**

**CAROTID** Learn the use of gray scale, color, and Doppler in order to get a diagnostic image. Know the basic scanning techniques and techniques to overcome scanning problems.

**VENOUS** Gives the student knowledge needed to be able to identify normal versus abnormal venous anatomy. To further learn the use of grey scale, color, and Doppler in order to get a diagnostic image. Know the basic scanning techniques and techniques to overcome scanning problems.

**VASCULAR PHYSICS II - 2 credits** The goal of this class is to teach the many facets of spectral Doppler, to understand the Doppler effect, and how to recognize abnormal wave forms and Doppler values.

**VASCULAR TECHNOLOGY II - 2 credits**

**ARTERIAL** Is a study of normal and abnormal arterial anatomy, the basic technique for arterial pressure studies, identification of normal versus abnormal arterial readings, and criteria for when you can and cannot exercise a patient.

**ABDOMINAL** The object of this course is to be able to identify normal abdominal vascular anatomy, know proper patient positioning, be knowledgeable about techniques to overcome scanning problems, and able to identify normal versus abnormal waveforms.

**Wheaton Franciscan Healthcare St Francis School of Diagnostic Medical Sonography Program**

**FOUNDATIONS OF ULTRASOUND** This course helps the students adapt to the demands of a hospital based educational program. Course content includes hospital and department orientation, the function of imaging in medicine, ethics, infection control, terminology, ultrasound history, basic technique (Knobology), and equipment utilization.



**ABDOMINAL SONOGRAPHY 1** This course focuses on normal gross anatomy, cross-sectional anatomy, and relational anatomy of the abdominal cavities, abdominal vessels, liver, and biliary system. Physiology and pathology are emphasized. Related laboratory values and other imaging modalities are discussed. Lectures are correlated with scanning lab demonstrations.

**ULTRASOUND PHYSICS & INSTRUMENTATION 1: BASIC ULTRASOUND** This course focuses on basic mathematical principles and ultrasound physics. The relationships between period, frequency, and wavelength are explored. A description of amplitude, power and intensity is given for both continuous wave and pulsed ultrasound. The student is taught the concepts of attenuation, reflection and refraction.

**CLINICAL PRACTICUM 1** The students will receive clinical instruction at WFH- St. Francis. This instruction will concentrate on abdominal ultrasound but the student will be exposed to all facets of Sonography. Under the direct supervision of the clinical instructors and sonographers, students will perform that portion of the abdominal exam that they have attained proficiency in. (see proficiency/competency system). They will further observe all exams performed at the clinical site. Students will be evaluated monthly on their scanning abilities and patient care skills.

**ABDOMINAL SONOGRAPHY 2** This course focuses on normal gross anatomy, cross-sectional anatomy, and relational anatomy of the pancreas, kidneys, spleen adrenals, GI tract, and abdominal wall. Physiology and pathology are emphasized. Related laboratory values and other imaging modalities are discussed. Lectures are correlated with scanning lab demonstrations. This is one of two courses that will contribute to a final grade in Abdomen Sonography.

**ULTRASOUND PHYSICS & INSTRUMENTATION 2: INSTRUMENTATION** This course focuses on the production of ultrasound and the processing of returning echoes for the fabrication of images. It discusses the various types of transducers and mechanisms for emitting and receiving sound waves. The schema of an ultrasound unit is discussed. The basic concepts of Doppler ultrasound and hemodynamics are introduced.

**CLINICAL PRACTICUM 2** Students will receive continued instruction by clinical instructors and sonographers in the performance of abdominal ultrasound at WFH- St. Francis. Again students will perform that portion of the abdominal exam that they have completed proficiency for. Students will also be encouraged to perform other exams under the direct supervision of the clinical instructors and experienced sonographers. Students will be evaluated monthly on their scanning abilities and patient care skills.

**PELVIC SONOGRAPHY** This course focuses on the gross normal anatomy, embryology, disease processes and normal and abnormal scan appearances. Physiology, embryology, and the menstrual cycle are discussed. Congenital and acquired anomalies are also explored. Infectious and inflammatory processes as well as neoplasms of the vagina, uterus, ovaries, and surrounding adnexa are discussed. Lectures are correlated with scanning lab demonstrations.

**SUPERFICIAL SONOGRAPHY** This course focuses on the embryology, normal gross anatomy and cross-sectional anatomy of the breast, thyroid, scrotum, prostate, penis, and musculoskeletal ultrasound. The physiology, pathology, and pathophysiology of these organs will be discussed. The normal and abnormal sonographic appearance of the organs will be demonstrated as well as techniques for obtaining images. Correlation with laboratory values and other modalities will be discussed.

**ULTRASOUND PHYSICS3: VASCULAR ULTRASOUND, QUALITY CONTROL & BIOEFFECTS** This course focuses on the physics and instrumentation used in vascular physics. The hemodynamics, Doppler instrumentation, and bioeffects of ultrasound are discussed and the safe use of the technology is emphasized. Students are required to explore recent advances in ultrasound and make presentations. This course will prepare the student to take the Physics and Instrumentation Final Exam.

**ABDOMINAL & PELVIC CASE REVIEW/FILM CRITIQUE 1** This course serves as an in-depth look at normal and abnormal abdominal and pelvic sonographic anatomy, interpretive, and technical considerations. The student will be required to present at least one case per session using prescribed methodology. The cases are designed to parallel the progression of lecture material. This course also encompasses rotations with the 'reading' radiologist while dictating exams.

**CLINICAL PRACTICUM 3** Students will begin clinical rotations at other sites. They will be expected to fully perform abdominal Sonography. They will receive instruction and experience hands on scanning of superficial and pelvic Sonography. They will continue to observe all other exams that the clinical site performs. Students will be evaluated monthly on their scanning abilities and patient care skills.

**OBSTETRICAL SONOGRAPHY 1** This course focuses on the gravid uterus and fetal development. Spontaneous abortion and ectopic pregnancies will be discussed. The function of the placenta, umbilical cord and amnion will be detailed. The normal 2nd and 3rd trimester fetal anatomy will be explained. The types of fetal ultrasound will be explored.

**VASCULAR SONOGRAPHY 1** The purpose of this course is to prepare the student to perform peripheral arterial and venous vascular ultrasound. It will introduce the student to the ultrasound physics and instrumentation involved performing vascular ultrasound. It then moves to the concepts of peripheral arterial and venous hemodynamics. The anatomy, physiology and pathology of the peripheral arterial and venous vasculature will be addressed. The ultrasound tests used to diagnose peripheral arterial and venous pathology will be described and the student will be taught to perform each of these tests. Scan labs will be integrated into the curriculum to provide hands-on skills. The student will become acquainted with other modalities that perform peripheral arterial and venous tests and the relative strengths and weaknesses will be explored.

**PEDIATRIC & INVASIVE SONOGRAPHY** This course will explore the uses of ultrasound that are either done rarely or practiced in specialized settings. Neonatal head, pediatric spine, abdominal, and hip ultrasound. Physiology, pathology, and related laboratory values are emphasized.

**PELVIC & ABDOMINAL CASE REVIEW/FILM CRITIQUE** This course serves as an in-depth look at normal and abnormal pelvic, abdominal, superficial and 1st Trimester Obstetric sonographic anatomy and interpretive and technical considerations. The student will be required to present at least one case per session using prescribed methodology. The cases are designed to parallel the progression of lecture material.

**CLINICAL PRACTICUM 4** Students will continue their clinical rotations at various sites. They will experience a variety of patient populations, with differing ethnic and socioeconomic backgrounds. They will begin performing obstetric exams under direct supervision. They will be expected to completely perform abdominal exams as well as superficial and pelvic exams under supervision. Students will be evaluated monthly and are expected to attain proficiencies and competency in pelvic ultrasound.

**OBSTETRICAL SONOGRAPHY 2** This course focuses on the 2nd and 3rd trimester scan. Gestational dating, maternal and fetal complications, fetal anomalies, and pathologies are emphasized. Models are used during the integrated scan labs to give the student proctored, hands-on scanning experience.

**VASCULAR SONOGRAPHY 2** The purpose of this course is to prepare the student to perform cerebrovascular and visceral Vascular Ultrasound. The student will also become familiar with pre and post testing for dialysis grafts and shunts. It will introduce the student to the instrumentation involved performing these exams. The concepts of cerebrovascular hemodynamics will be taught. The anatomy, physiology and pathology of the cerebrovascular and visceral systems will be addressed. The ultrasound tests used to diagnose cerebrovascular and visceral pathology will be described and the student will be taught to perform each of these tests. Scan labs will be integrated into the curriculum to provide hands-on skills. The student will become acquainted with other modalities that perform vascular tests and the relative strengths and weaknesses will be explored. Finally the quality control and statistical analysis of vascular ultrasound will be taught.

**GENERAL AND VASCULAR CASE REVIEW/FILM CRITIQUE 3** This course serves as an in-depth look at normal and abnormal general and vascular sonographic anatomy and interpretive and technical considerations. The student will be required to present at least one case per session using prescribed methodology. The cases are designed to parallel the progression of lecture material.

**CLINICAL PRACTICUM 5** Students will continue clinical rotations at various sites. They will be independently performing all aspects of general ultrasound and peripheral vascular testing under supervision. They will continue to learn the 2nd/3rd trimester pregnancy scan and Cerebrovascular scanning. Students will be evaluated monthly and are expected to attain proficiencies and competencies in obstetric exams.

**REGISTRY REVIEW** Classroom involvement during the last quarter of the program is dedicated to reviewing for the ARDMS exam. This course provides students with the opportunity to improve test-taking skills.

**GENERAL AND VASCULAR CASE REVIEW/FILM CRITIQUE 4** These courses serve as an in-depth look at normal and abnormal general and vascular sonographic anatomy and interpretive and technical considerations. The student will be required to present at least one case per session using prescribed methodology. The cases are designed to parallel the progression of lecture material.

**CLINICAL PRACTICUM 6** Student's placement at the school's clinical sites will be increased and students are required to achieve mastery of all phases of ultrasound including vascular. Students will be evaluated monthly and are expected to attain proficiencies and competencies in vascular exams. This course is intended for students not continuing with the cardiac sonography elective.

## ECONOMICS

**ECON 200 PRINCIPLES OF ECONOMICS** offers a single semester introduction to both Micro and Macro Economics. Students emerge with a basic understanding of the concepts behind economists' analysis of labor and product markets as well as business decisions. They also learn to recognize the perspectives of macroeconomists and evaluate how fiscal and monetary policy may adversely or positively impact the macro-economy. 3 credits.

**ECON 222 MACRO-ECONOMICS** presents principles and theories of macro-economics with emphasis on economic policies and their impact on the national welfare. Special attention is given to the application of economic thinking methods to solving the macro economic problems. 3 credits.

**ECON 231 MICRO-ECONOMICS** provides a unifying theme of micro-economics, showing how micro economics is the synthesis of theories, decision sciences, and the various fields of business administration studies. The special emphasis is placed on the interaction between the firm's business strategy and the market structure as the firm attempts to reach optimal performance in the face of economic constraints. 3 credits.

**ECON 315 MACROECONOMIC CRISES IN HISTORY** analyzes the causes and consequences of Macroeconomic Crises in history and provides insight into whether or not these crises can be avoided or ameliorated by wise government economic policies. Particular crises analyzed include the South Sea Bubble, the Great Depression, and the current economic crisis, which is sometimes referred to as the "Great Recession." 3 credits.

**ECON 320 MONEY AND BANKING** is a functional analysis of financial institutions with emphasis on commercial banking. It includes a review of the nature, history, and functions of money creating depository institutions. It also includes an examination of the role of central banks and the implications of monetary and fiscal policy for economic growth, inflation, employment, trade, and exchange rates. Prerequisites: ECON 221, ECON 231, and FIN 300. 3 credits.

**ECON 322 INTERMEDIATE MACROECONOMICS** explores several theoretical models relating to the determinants of unemployment, inflation, economic growth, and economic stability in a primarily market based economy. Within this framework, the impact of fiscal and monetary policy is explored within the context of the current economic environment. This course is designed to utilize theoretical and mathematical tools that are more advanced than those applied in the introductory macroeconomics course. Prerequisites: ECON 222. 3 credits.

**ECON 331 INTERMEDIATE MICROECONOMICS** provides a rigorous analysis of consumer preferences as related to the demand for goods and services, as well as the theory of the firm which relates market structure to the supply of goods and services and the efficient allocation of scarce resources. This course is designed to use theoretical and mathematical tools that are more advanced than those applied in the introductory microeconomics course. Prerequisites: ECON 231. 3 credits.

**ECON 370 INTERNATIONAL ECONOMICS** provides an up-to-date and balanced approach to world economic relations by integrating theories of international economics with globally empirical evidence. The special attention is given to the current process of globalization, increasing volume of international trade, foreign direct investments, cross-border lending, and international portfolio investment. Prerequisites: ACCT 102, ECON 222, ECON 231, FIN 300, MKTG 131. 3 credits.

**ECON 430 INTERNATIONAL FINANCE** examines the role of international financial management with emphasis on multinational corporations. It discusses topics such as the foreign exchange market and the determination of exchange rates, the exchange risk exposure as it impacts management's decisions, the multinational corporation (MNC) and foreign direct investment (FDI), the rationality of FDI flows, the management of foreign operations, and the determinants of international flows of goods and funds. Prerequisites: ECON 222, ECON 231, and FIN 300. 3 credits.

## EDUCATION

**ED 100 PRE-UDS** is a seminar for education majors who have not yet obtained Upper Division Status. Pre-UDS orients students to the education program and the process of achieving Upper Division Status. Major components include the clinical experiences and the Pre-Professional Skills Test. When clinical hours are completed, credit is given through ED 211, ED 212, and ED 213. Students should register for ED 100 every semester until Upper Division Status is achieved. 0 credits.

**ED 102 FOUNDATIONS OF EDUCATION** is a critical examination of the forces that have shaped formal and informal education, especially as they affect American urban education. Historical, philosophic, scientific, and social foundations are related to contemporary issues. This is an introduction to the teaching profession. Technology is integrated throughout this course. 3 credits.

**ED 103 HUMAN RELATIONS FOR TEACHERS** is an interaction laboratory course designed to help students improve their interpersonal relationship skills and acquire competence in facilitating human relations activities in the classroom. Students will examine their attitudes and values toward and improve their techniques in working with students, parents, colleagues, and community and minority groups. Introduces human relations component to education majors. 3 credits.

**ED 202 MUSIC FOR TEACHERS** enables prospective elementary/middle school teachers to develop and integrate musical knowledge and skills through movement and by playing the recorder, autoharp, various rhythm instruments. 3 credits.

**ED 203 EDUCATIONAL TECHNOLOGIES** is a course that teaches how to develop a spreadsheet, a database, and web pages. Spreadsheet development includes formatting and formulas. Database creation includes working with tables, queries, forms, reports and mail merge. The concept of WebQuests and developing web pages is also learned, and copyright issues are explored. Although designed for education students, this course can be taken by anyone. No prerequisite. 1 credit.

**ED 204 DEVELOPMENTAL READING (GR. K-9)** surveys the nature of the teaching of reading, covering the varied elements of the reading process, different kinds of reading, and various approaches to the teaching of reading. Includes field experience. 4 credits.

**ED 209 EDUCATIONAL PSYCHOLOGY - ADOLESCENT** presents theories of development, learning, and motivation in the context of the early adolescent and adolescent student. 3 credits.

**ED 211 CLINICAL I** - is an initial clinical experience for education students in public and private classrooms and a selection of grade levels. The experience involves 30-50 clock hours of work during the semester in teaching-learning situations: observing, tutoring, clerical work, small group instruction, etc. Students register for this course by enrolling in ED 100 Pre-UDS. 1 credit.

**ED 212 CLINICAL II** - is an initial clinical experience for education students in a multicultural environment. The experience involves 30-50 clock hours of work during the semester in teaching and learning situations: observing, tutoring, clerical work, small group instruction, etc. Students register for this course by enrolling in ED 100 Pre-UDS. 1 credit.

**ED 213 CLINICAL III** - is an initial clinical experience for education students in a special education environment. The experience involves 30-50 clock hours of work during the semester in teaching-learning situations: observing, tutoring, clerical work, small group instruction, etc. Students register for this course by enrolling in ED 100 Pre-UDS. 1 credit.

**ED 230 NATURE OF THE EXCEPTIONAL CHILD (INTRODUCTION TO CHILDREN WITH SPECIAL NEEDS)** is designed to introduce the education student to a study of the major characteristics of all disabilities as defined by state and federal law in order to recognize their existence in children and youth. Students will study the process and legal requirements for Special Education services, including pre-referral intervention, screening, the referral process, and M-teams and IEPs. Students will also study characteristics of gifted children. 3 credits.

**ED 231 CHILDREN'S LITERATURE** presents an extensive selection of books for children of all ages; criteria for selection; practical methods for arousing the child's interest in books; includes units on the art of the storyteller, drama for and with children, uses of modern technology, and psychological factors in writing children's literature. Students will be expected to read extensively in children's books. 3 credits.

**ED 252 TEACHING ADOLESCENT LITERATURE** provides an introduction to the student to a variety of strategies for presenting adolescent literature in the classroom. The course includes an overview of genres along with an introduction to important early texts as well as current adolescent/young adult texts appropriate for classroom use. Students will explore the issues of diversity, censorship, and privacy within relevant family and community situations. Attention is also given to authors in the field and also will identify criteria for selecting award-winning books. 3 credits.

- ED 275 HUMAN LEARNING** explores theories of human development, learning, and motivation. The practical applications of these theories in educational psychology are presented. Students will be actively engaged in the learning process through a variety of assignments and activities including clinicals, presentations, reflections and other experiences relevant for their portfolio development. 3 credits
- ED 300 UPPER DIVISION STATUS SEMINAR** is a seminar for education majors who have obtained Upper Division status. UDS Seminar orients students to the requirements necessary to complete the education program. Major components include the Praxis II exam, student teaching, the LCMS Call process, and placement. Students should register for ED 300 every semester after obtaining Upper Division Status until student teaching. 0 credits.
- ED 301 ANALYSIS OF CLASSROOM PRACTICE - ELEMENTARY/MIDDLE** introduces teaching strategies that are practiced in other methods courses. Emphasizes lesson planning, writing objectives, classroom management, and discipline techniques. Prerequisite: acceptance to Upper Division Status or instructor's consent. 3 credits.
- ED 303 CURRICULUM & METHODS IN LANGUAGE ARTS ELEMENTARY/MIDDLE** explores materials and methods in the study of the communication skills: speaking, listening, writing, and reading, and their interrelationships. Prerequisite: Upper Division Status; ED301 concurrent. 3 credits.
- ED 304 CURRICULUM AND METHODS IN MATHEMATICS - ELEMENTARY/MIDDLE** explores content, materials, and strategies for teaching and assessing elementary and middle school students' mathematics. Current research in mathematics education and curriculum development is emphasized. Preservice teachers will teach mathematics in local schools and develop a philosophy for teaching mathematics. Prerequisites: MATH 119 and 120; Upper Division Status; ED301 concurrent. 3 credits.
- ED 305 CURRICULUM & METHODS IN SCIENCE & ENVIRONMENT - ELEMENTARY/MIDDLE** presents an overview of curriculum, materials, and methods of teaching science and environmental concerns. Meets Wisconsin DPI requirements. Prerequisite: Upper Division Status; ED 301 concurrent. 3 credits.
- ED 306 TEACHING THE FAITH** helps the student develop knowledge of resources and skills necessary to teach religion in the elementary classroom. Not required of public education students. Prerequisite: Upper Division Status and completion of Core theology requirements and either REL 204 or REL 404. 3 credits.
- ED 307 TEACHING THE FAITH FOR THE CHRISTIAN/PUBLIC EDUCATOR** addresses two distinct teaching communities. One component of the course explores the legal ways that teachers can express their faith and discuss religious topics in the public school. The other component of the course is similar to the course Teaching the Faith. It has a biblical basis that guides students to share the love of Jesus with their students and explores opportunities for teachers to intentionally integrate faith into the curriculum. This component equips students who end up working in a Christian School. Prerequisites: Upper Division Status. 3 credits.
- ED 310 METHODS OF TEACHING FOREIGN LANGUAGE AND ENGLISH AS A SECOND LANGUAGE** introduces the student to the methods, curriculum, and current practices in the teaching of foreign language and/or English as a second language. Prerequisite: Upper Division Status. 3 credits.
- ED 311 CURRICULUM AND METHODS OF THEATRE** works the student through the problems of teaching, planning, and presenting theater programs. Where to find and how to select scripts, involving parents, designing and sequential curriculum, theater games, and school programs are covered. Crosslisted THTR 311. 3 credits.
- ED 312 MATH IN MIDDLE SCHOOL** investigates mathematics content and methods appropriate for teaching math to middle level students. National trends and current philosophy of teaching mathematics at this level is discussed. Prerequisite: Upper Division Status. 3 credits.
- ED 315 PRACTICUM IN ESL** provides students with an opportunity to explore theory and practice in a local ESL classroom. 1 credit.
- ED 327 WORKING WITH CHILDREN WITH DISABILITIES AND THEIR FAMILIES** is a course in which education students will explore methods for working with parents of children with disabilities and community agencies. To increase understanding of family's perspectives, the impact of exceptionality on the family is studied in the framework of family systems theory, functions, and the life cycle. Strategies for establishing collaborative partnerships with families resulting in a family-centered approach to service delivery will be emphasized. Community, national agencies, and advocacy groups will be introduced and researched. Students will prepare to help parents advocate for their children's educational and community rights. Prerequisites: Upper Division Status. 3 credits.
- ED 328 ENVIRONMENTAL AND PERSONAL STRATEGIES FOR SELF-MANAGEMENT FOR CHILDREN WITH DISABILITIES:** This course is designed to teach the education student ways to incorporate community involvement in their curriculum specifically for the student with disabilities. Family involvement will be stressed. Students will look at curriculum that incorporates basic issues related to social self-help skills. Units will focus on transitions, vocational options, legal issues, and post secondary programs from sheltered workshops to universities with special education services. Prerequisites: Upper Division Status or consent of department chair. 3 credits.
- ED 343 SYNTHESIS AND PROFESSIONAL DEVELOPMENT—EARLY CHILDHOOD EDUCATION** is a synthesis course focusing on finalizing a personal theory of education and portfolio completion. Taken during the student teaching experience. 1 credit.
- ED 350 TEACHING IN THE MIDDLE SCHOOL** considers the developmental, disciplinary, and instructional needs of the transescent student. Prerequisites: Upper Division Status, ED 301 or concurrent. 3 credits.
- ED 354 LANGUAGE ARTS IN EARLY CHILDHOOD** introduces the student to literacy development, theory, and practice in the early childhood years. This will be taught through exploration of materials and teaching methods of language arts. Listening, speaking, reading, and writing will be the focus using children's literature throughout. Current trends to traditional methods will be introduced with application to pre-kindergarten through third-grade classrooms. 3 credits.
- ED 355 MUSIC IN EARLY CHILDHOOD** introduces the basic elements of musical understanding and skills through participation in singing, rhythmic movement, and improvisation. Students learn to develop criteria for selecting materials and activities. Provides introduction to evaluation methods and to methods for integrating music activities throughout the curriculum. Prerequisite: Upper Division Status. 2 credits.
- ED 356 MATHEMATICS IN EARLY CHILDHOOD** explores content, materials, and strategies for teaching and assessing young children mathematics. Current research in early childhood mathematics education is emphasized. Preservice teachers will teach mathematics in local schools and develop a philosophy for teaching mathematics. Prerequisites: MATH 119 & 120; Upper Division Status. 3 credits.
- ED 357 SCIENCE & ENVIRONMENT IN EARLY CHILDHOOD** explores basic science concepts through discussion and hands-on experience. Students are helped to choose appropriate topics that may be integrated into other curriculum areas. Exploration and discovery methodology are used as a paradigm for working with children in the science curriculum. Meets Wisconsin DPI environmental requirements. Prerequisite: SCI 150, SCI 155, Upper Division Status. 3 credits.
- ED 358 LANGUAGE DEVELOPMENT AND EMERGENT LITERACY** is a study of the ways children develop as oral language users, readers, and writers. Includes study of children's language usage, shared book experience, skills in organizing the environment, stages of writing, and journal writing. The course will examine current research, curriculum practices, and instructional strategies. Prerequisites: Upper Division Status and ED 204. 3 credits.
- ED 359 CURRICULUM AND TECHNIQUES IN EARLY CHILDHOOD I** is a study of developmentally appropriate practices, with emphasis on the nature and functions of play. Curriculum design, goal development, and program planning will be examined. The socialization process will be emphasized as a significant component of the social studies program for young children. To be taken prior to student teaching. Prerequisite: Upper Division Status. 3 credits.
- ED 362 FAITH DEVELOPMENT OF YOUNG CHILD** introduces the student to various techniques, methods, and materials in presenting the Christian faith to a young child. Prerequisites: Upper Division Status. ED 358, ED 359. 3 credits.
- ED 370 ANALYSIS OF INSTRUCTION – SECONDARY/MIDDLE** emphasizes writing of course objectives and lesson plans, instructional strategies, along with classroom management and discipline techniques. Prerequisite: Upper Division Status or consent of instructor. 3 credits.
- ED 372 CURRICULUM AND METHODS IN TEACHING ENGLISH-SECONDARY/MIDDLE** focuses on teaching concepts and instructional strategies in the teaching of secondary and middle school English. Includes the construction of unit and lesson plans using a variety of resources and instructional tools. Prerequisites: Upper Division Status and ED 370. 3 credits.
- ED 373 CURRICULUM AND METHODS IN TEACHING SOCIAL STUDIES-SECONDARY/ MIDDLE** combines principles and specific methods for teaching social studies in the secondary and middle school. National standards and the various philosophies of teaching social studies will be discussed. Prerequisites: Upper Division Status and completion and ED 370. 3 credits.

- ED 374 CURRICULUM & METHODS IN TEACHING MATHEMATICS-SECONDARY/MIDDLE** combines principles and specific methods of teaching mathematics in the secondary school. National trends and current philosophy of teaching mathematics are discussed. Prerequisites: Upper Division Status and ED 370. 3 credits.
- ED 375 CURRICULUM AND METHODS IN TEACHING RELIGION-SECONDARY/MIDDLE** studies curriculum materials and resources available for high school and middle school religion instruction as well as strategies for teaching. Prerequisite: completion of Core theology requirements and either REL 204 or REL 404. Prerequisites: Upper Division Status or consent of instructor and ED 370. 2 credits.
- ED 376 CURRICULUM AND METHODS IN TEACHING SCIENCE-SECONDARY/MIDDLE** combines current research on learning theory with principles and specific methods of teaching science in the middle and secondary schools, including instruction in the use of audio-visuials. Prerequisites: Upper Division Status or consent of instructor and ED 370. 3 credits.
- ED 377 CURRICULUM AND METHODS IN TEACHING BUSINESS EDUCATION** combines principles and specific methods in teaching business in the middle and secondary schools, including instruction in the use of audio-visuials. Prerequisites: Upper Division Status or consent of instructor and ED 370. 3 credits.
- ED 379 CURRICULUM AND METHODS IN TEACHING MUSIC - (K-12)** covers philosophical foundations of music education, levels of objectives with emphasis at the program and instructional level, characteristics of children and adolescents relevant to teaching music, classroom and rehearsal management, and methods for teaching music to students in grades K-12. Prerequisites: Upper Division Status or consent of instructor and ED 370. 3 credits.
- ED 383 COMMUNICATION ARTS IN THE CONTENT AREAS** provides an in-depth study of the relationship of reading, writing, speaking and listening to the curriculum of middle and secondary schools. Emphasis is on the practical application of reading theory to content, lesson planning and instruction. Prerequisite: Upper Division Status. 3 credits.
- ED 401 READING STRATEGIES FOR THE CLASSROOM** provides students with multiple reading and learning strategies to use across the curriculum. Theoretical models of reading and instructional approaches to the teaching of reading are reviewed, including developmentally appropriate instructional methods for teaching phonics and spelling. Although students are not encouraged to take any course work during student teaching, ED 401 is suitable to take concurrent with student teaching. Permission of the Elementary Education Department Chair is required to take ED 401 concurrent with student teaching. Prerequisites: Upper Division Status, ED 204 completed, ED 301 or concurrent. 2 credits.
- ED 402 CURRICULUM & METHODS OF ART: ELEMENTARY/MIDDLE** explores the critical importance of visual learning experiences within the elementary/middle school curriculum. Considers the developmental stages of children's artistic and graphic development, means of motivating students through art activities and offers hands-on experience with a variety of art materials appropriate for use in the elementary /middle school curriculum. Prerequisites Upper Division Status and ART 151. 1 credit.
- ED 404 CURRICULUM/METHODS OF TEACHING ELEMENTARY PHYSICAL EDUCATION - ELEMENTARY/MIDDLE** introduces the student to the wide variety of activities available for teaching physical education to elementary aged children. Students also learn how to plan daily lessons, unit plans, and yearly schedules. Students are exposed to some of the local elementary school physical education programs analyzing these programs' strengths and weaknesses. Students are given teaching opportunities in a variety of activities. Prerequisite: Upper Division Status. 1 credit.
- ED 405 CURRICULUM AND METHODS IN TEACHING HEALTH-ELEMENTARY/MIDDLE** offers instruction in the reasons for including health education in the elementary curriculum and explores methods and materials which are effective in its instruction. Prerequisite: Upper Division Status. 1 credit.
- ED 407 CURRICULUM & METHODS IN TEACHING SOCIAL STUDIES - ELEMENTARY/MIDDLE** introduces students to curriculum planning, methods, and materials in teaching of 1-9 social studies. Prerequisite: Upper Division Status: Core history and government courses; ED 301 concurrent. 3 credits.
- ED 409 INSTRUCTIONAL TECHNOLOGIES** is an advanced technology course taken by education students with upper division status. The emphasis of this course is to learn how technology is used in the classroom setting. Topics such as the internet, spreadsheets, databases, desktop publishing, PowerPoint and video are explored. Prerequisite: ED 203 and Upper Division Status. Enroll concurrently with student teaching. 1 credit.
- ED 411 PROFESSIONAL ETHICS FOR TEACHERS** is the capstone course of the education program, usually taken just before student teaching. This course emphasizes educational assessment, school law, the procedures for obtaining a position in a public school or a Call to a Lutheran school, the ethical considerations of the teaching profession, and financial planning and other practical issues for teachers. Prerequisite: Upper Division Status. 3 credits.
- ED 412 PORTFOLIO COMPLETION-ELEMENTARY.** 1 credit.
- ED 414 PORTFOLIO COMPLETION-SECONDARY.** 1 credit.
- ED 416 MARKETING EARLY CHILDHOOD PROGRAMS** studies the challenges related toward successfully marketing Early Childhood programs. Topics include formal and informal marketing, local and corporate sponsorship. 1 credit.
- ED 417 FINANCIAL MANAGEMENT FOR EARLY CHILDHOOD PROGRAMS** studies the issues related to the unique workings of Early Childhood programs and competently managing their financial resources. Topics include bookkeeping, computer resources, budgeting, and investments. 1 credit.
- ED 418 HUMAN RESOURCES FOR THE EARLY CHILDHOOD PROGRAM** explores the intricate relationships and concerns found in managing staff in an early childhood program. Issues include off-site management, full-time and part-time employment, and inter-staff communication. 1 credit.
- ED 421 STUDENT TEACHING-ELEMENTARY GRADES 1-6** provides one of two culminating clinical experiences for students who will receive a teaching license for elementary and middle school. Students will enroll concurrently in ED 422. Prerequisites: Upper Division Status and completion of all 300 level education courses. 6 credits.
- ED 422 STUDENT TEACHING-MIDDLE SCHOOL** provides one of two culminating clinical experiences for students who will receive a teaching license for elementary or secondary education. Students will enroll concurrently in ED 420 or ED 474. Prerequisites: Upper Division Status and completion of all 300 level education courses. 6 credits.
- ED 424 STUDENT TEACHING-EXPERIENCED** is a flexible situation arranged for the student with previous teaching experience who desires additional professional development within the classroom setting. 1-3 credits.
- ED 427 STUDENT TEACHING-KINDERGARTEN** provides one of three culminating clinical experiences for students who will receive a teaching license for early childhood. The student teacher will enroll concurrently in ED 428 and ED 460. Prerequisites: Upper Division Status and completion of all 300 level education courses. 4 credits.
- ED 428 STUDENT TEACHING-PRIMARY** provides one of three culminating clinical experiences for students who will receive a teaching license for early childhood. The student teacher will enroll concurrently in ED 427 and ED 460. Prerequisites: Upper Division Status and completion of 300 level education courses. 4 credits.
- ED 432 TEACHING WRITING** is designed to acquaint elementary and secondary teachers with the stages of the writing process. Covers various approaches to evaluating writing, overviews historic and recent rhetorical theories, and promotes awareness of the importance of consideration of audience as well as the effects of cultural and educational contexts on writing. Prerequisites: Upper Division Status. 3 credits.
- ED 433 STUDENT TEACHING K-12 - ELEMENTARY** provides one of two culminating clinical experiences for students who will receive a teaching license for grades K-12. Students will enroll concurrently in ED 434. Prerequisites: Upper Division Status and completion of all 300 level education courses. 6 credits.
- ED 434 STUDENT TEACHING K-12 - SECONDARY** provides one of two culminating clinical experiences for students who will receive a teaching license for grades K-12. Students will enroll concurrently in ED 433. Prerequisites: Upper Division Status and completion of all 300 level education courses. 6 credits.
- ED 440 CURRICULUM & METHODS IN COMPUTER SCIENCE EDUCATION (1-9)** studies the strategies involved in teaching computer science. Focuses on choosing software that integrates into other areas of the curriculum, and details how to use that software effectively. 3 credits.
- ED 445 PRINCIPLES OF VOCATIONAL/TECHNICAL EDUCATION** is intended to provide a context for the understanding of the role of vocational-technical education in American society. Learners are provided the opportunity to examine and make application of social, political and economic influences on the philosophy and practice of vocational-technical education as reflected in both the public sector delivery systems and the private sector training. Prerequisite: ED 370. 2 credits.



**ED 460 STUDENT TEACHING-PRE-KINDERGARTEN** provides one of three culminating clinical experiences for students who will receive a teaching license for early childhood. The student teacher will enroll concurrently in ED 427 and ED 428. Prerequisites: Upper Division Status and completion of all 300 level education courses. 4 credits.

**ED 461 ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS** provides knowledge of various organizational and administrative structures pertinent to Early Childhood. Emphasis is on policies, regulations, managing personnel, budgets, and community resources. Prerequisites: Upper Division Status and ED 359 and ED 465. 1 credit.

**ED 464 FAMILY-SCHOOL INTERACTIONS** studies the relationship between young children, parents, and schools. Course focuses on family structures and social factors that influence the family. Emphasis will be placed upon how schools and families can support each other and how community resources can be used. To be taken after or concurrent with student teaching. Prerequisite: Upper Division Status and ED 359. 2 credits.

**ED 465 CURRICULUM & TECHNIQUES IN EARLY CHILDHOOD II** emphasizes individualization, integration of curriculum techniques and critical thinking strategies in early childhood environments, 0-8 years of age. Program models will be studied in relation to environmental designs, planning procedures, and classroom management. Other topics include cooperative learning, creative dramatics, and social studies. Prerequisites: Upper Division Status; ED 359. 3 credits.

**ED 466 HEALTH AND WELLNESS 0-8 YEARS** studies the integration of health, nutrition and wellness within early childhood settings. A variety of approaches to curriculum content, instructional strategies and resources for teaching will be examined. Prerequisite: Upper Division Status. 1 credit hour.

**ED 467 ART IN EARLY CHILDHOOD** explores the critical importance of visual learning experiences for children preK through 3 grade. Considers the developmental stages of children's drawing, with on designing developmentally appropriate activities and viewing the art process as central to subsequent symbol use and language development. Emphasis on merging theory with practice helps teachers understand what and how to provide for an art activity as well as why. Includes hands-on experience with a variety of art materials appropriate for use in the early childhood classroom. Prerequisites Upper Division Status and ART 110, 141, 142 OR 151. 2 Credits.

**ED 474 STUDENT TEACHING SECONDARY** provides one of two culminating clinical experiences for students who will receive a teaching license for secondary education. Students will enroll concurrently. ED 422. Prerequisites: Upper Division Status and completion of all 300 level education courses. 6 credits.

**ED 479 ASSESSMENT AND INSTRUCTION FOR CHILDREN WITH SPECIAL NEEDS** investigates developmentally appropriate purposes, methods and approaches to the observation and assessment of young children. Students focus on groups and individual assessments in academic, cognitive, communication, physical and adaptive education areas. Students practice with assessment instruments and use them to help determine possible eligibility for Special Education programming and measurement of student progress. 3 credits.

**ED 481 LANGUAGE AND COMMUNICATION DISORDERS** This course is designed to teach education students what to expect in their classrooms in regards to communication. Normal language acquisition, cognitive development, and social interactions will be addressed. Students will be able to recognize whether a child's language development is significantly delayed. Alternative modes of communication will be addressed. 3 credits.

**ED 484 EDUCATIONAL/BEHAVIORAL MANAGEMENT IN SPECIAL EDUCATION** is a practical course in individual and group management strategies that stress personal and social responsibilities for students with disabilities. Education students will gain experience providing a nurturing environment, de-escalating potentially disruptive situations, and designing individual and group behavior/management plans through role playing and observation. Students will receive instruction on conflict resolution. 3 credits.

**ED 487 INTERVENTION STRATEGIES IN SPECIAL EDUCATION** Students will modify lessons and practice different instructional strategies necessary for a variety of educational needs within the regular classroom setting. Methods for supporting and maintaining students with special educational needs in the general education classroom with be explored. Students will understand the importance of collaboration with other professionals and parents. Students will also take an active role in advocacy in regard to special education. Students will have an opportunity to work on personal skill development through the practicum experience integrated with the course. Prerequisite ED 479. 4 credits.

**ED 488 ADVANCED SEMINAR IN EARLY CHILDHOOD ADMINISTRATION** provides an extended opportunity to examine a range of topics in child care legislation and public policy, human resources management, community referral systems, advocacy funding sources, and school age programs. Prerequisite: ED 461. 2 credits.

**ED 489 PRACTICUM IN EARLY CHILDHOOD ADMINISTRATION** provides the opportunity to relate theory to practice in an administrative childcare setting. Placement will be made with a director in a licensed and NAEYC certified childcare. Prerequisite: ED 461. 1 credit.

## ENGLISH

**ENG 094 COLLEGE WRITING FOR INTERNATIONAL STUDENTS** is a developmental course for International students who have successfully completed or tested out of ESL classes but may still have difficulty with college level writing. This course focuses on academic writing, particularly research skills. 3 credits.

**ENG 095 DEVELOPMENTAL ENGLISH I** emphasizes the improvement of written and verbal vocabularies and reading comprehension. In addition, it focuses on the application of basic English grammar usage to improve writing. Required of provisional students. Crosslisted DEV 095. 3 credits.

**ENG 102 BASIC ENGLISH GRAMMAR AND USAGE** is an elementary grammar course that focuses on basic principles of grammar and usage. It is intended for students whose background in grammar is weak, or for students who wish to brush up on their understanding of concepts and terminology. Emphasis is placed on applying principles in written communications and developing proofreading skills. 3 credits.

**ENG 103 CIVILIZATIONS & WORLDVIEWS: LITERATURE** This class provides practice and experience in reading three primary genres of literature: fiction, poetry, and drama. The purpose of this course is to enable the student to enjoy and appreciate a wide spectrum of literature, with an understanding of how best to undertake various types of critical analyses of a work. 3 credits.

**ENG 104 INTRODUCTION TO WRITING** designed for the student with a good high school background in writing, focuses on the process of written expression and gives practice in dealing with the various modes of discourse from free writing through research. 3 credits.

**ENG 106 NURSING & YOU: AN APPROACH TO HOLISTIC NURSING (B.S.N. Completion Program Only)** considers the relationship between the successful nurse and a study of the Humanities, particularly as it relates to the human condition. The nurse who understands the essence of what it is that motivates the crown of God's creation, humankind, will better be able to use a holistic approach to nursing care and will understand self and patient better. Thus, the student will become part of a strong support group, will review good study techniques, will survey approaches to the study of literature, music and art, and will continue to develop critical and analytic skills that will enhance nursing care and, at the same time, lead to a richer personal life. 3 credits.

**ENG 240 BASIC LINGUISTICS** is an introduction to the elements of linguistics, including a study of the phonetic alphabet and morphology. 3 credits.

**ENG 245 ADVANCED WRITING** is designed for those students who have demonstrated their competence in the basic techniques of expository writing and the mechanics of language. The object of the course is to direct students away from structured, research composition to drawing creative material from their own minds and experience. Prerequisite: ENG 104. 3 credits.

**ENG 246 CREATIVE WRITING** involves the theory of both the short story and poetry, with a study of selected examples of the genres. Practice in writing both short stories and poetry is given. Prerequisite: ENG 104 or its equivalent. 3 credits.

**ENG 300 ADOLESCENT LITERATURE** is a survey of the seven styles of adolescent literature now appearing in print, accompanied by an historical overview of previous (late 19th/early 20th century) young adult literature. The student is asked to read numerous young adult novels within the types and to determine their worth for young reader. Prerequisite: ENG 103. 3 credits.

**ENG 305 ADVANCED GRAMMAR AND USAGE** is intended for students who already have a solid background in grammar and wish to extend their knowledge and appreciation of grammatical principles. It is required of all English majors. Prerequisite: ENG 104 or equivalent, or consent of instructor. 3 credits.

**ENG 341 AMERICAN LITERATURE I** surveys the Romantic and Realist traditions of American literature as they develop and form the basis for what has become the modern entity. Representative writers such as Poe, Hawthorne, Melville, Crane and selected poets such as Whitman and Dickinson are considered for their influence on the development of American literature. Prerequisite: ENG 103. 3 credits hours.

**ENG 342 AMERICAN LITERATURE II** surveys the development of American literature from the latter part of the 19th Century to the present. Representative writers such as Twain, James, Fitzgerald, Faulkner, Hemingway, Updike, Oates, and poets such as Frost, Stevens, Pound, Eliot, Roethke, and Wilbur will be studied. Prerequisite: ENG 103. 3 credits.

**ENG 344 ENGLISH LITERATURE I** reviews the early years of English literary history. The course begins with Beowulf and surveys four major literary periods: The Middle Ages, The Sixteenth Century, The Seventeenth Century, and The Restoration and Eighteenth Century. Major authors studied include Chaucer, Milton, Marlowe, Donne, and Pope. Prerequisite: ENG 103. 3 credits.

**ENG 345 ENGLISH LITERATURE II** surveys the continuing development of English literature from Blake through the Romantics and Victorians to the moderns. Prerequisite: ENG 103. 3 credits.

**ENG 347 WORLD LITERATURE** surveys Western classics from Homer to Sophocles to the 20th Century. Also included is a selective overview of various Eastern literatures. Prerequisite: ENG 103. 3 credits.

**ENG 350 CLASSICAL AND MODERN RHETORIC** provides an overview and study of the art of classical rhetoric, beginning with the ancient Greeks and culminating in twentieth century understandings and applications. Prerequisites: ENG 104 or 245. 3 credits.

**ENG 351 PRACTICUM IN WRITING CONSULTATION** explores composition theory, the critique of writing, collaborative learning, and tutoring philosophies. Students participate in writing consultations and management of the CUW Writing Center. Prerequisite: Writing competence as evidenced by earning an A or a B+ in ENG 104 or ENG 245 or by recommendation of a faculty member. 3 credits.

**ENG 355 MODERN FICTION AND THE TRADITION** examines principle authors and works of this century and studies the historical development of the novel as an aid to understanding the present conventions of the genre. Prerequisite: ENG 103. 3 credits.

**ENG 356 MODERN POETRY AND THE TRADITION** studies twentieth century poetic conventions and contemporary poets in historical perspective. Prerequisite: ENG 103. 3 credits.

**ENG 357 MODERN DRAMA AND THE TRADITION** examines the history and literature of Western drama from Aeschylus and Sophocles to Williams and Pirandello. Prerequisite: ENG 103. Crosslisted THTR 250. 3 credits.

**ENG 358 MODERN NON-FICTION AND THE TRADITION** examines the history and development of the most popular form of contemporary writing. Various modes of non-fiction discourse will be studied: journalism, biography, the essay, and the new non-fiction. Prerequisite: ENG 103. 3 credits.

**ENG 365 ENGLISH-ITS CULTURAL DEVELOPMENT** studies the history and structure of the English language and several grammatical systems of English and dialectology. It surveys the development of the English language from the Old English period to the present and presents an introduction to linguistics. 3 credits.

**ENG 380 MAJOR AUTHORS** focuses on a single author, studying his or her work in depth. The course may be repeated as different authors are studied. 3 credits.

**ENG 386 SPECIAL TOPICS IN LITERATURE** focuses on repeated themes or specific styles that have proven important in literature. The course may be repeated as the subject varies. 3 credits.

**ENG 405 LINGUISTICS & GRAMMAR** is designed for students involved with the English as a Second Language program. The course analyzes the phonology, morphology, and the syntax of English. It clarifies the differences and similarities between English and other languages. 3 credits.

**ENG 465 SHAKESPEARE** examines the major works of Shakespeare including examples from the comedies, histories, tragedies, and the sonnets. Junior standing. Prerequisite: ENG 103. 3 credits.

**ENG 475 LITERARY CRITICISM** considers premise and methods of criticism. The course will survey the various modern approaches to literature - formalist, genre, archetypal, historical - and will provide exercises in practical criticism of literary work. Junior standing. Prerequisite: ENG 103. 3 credits.

**ENG 495 SENIOR SEMINAR** provides students the opportunity to begin a research project in the humanities. The first semester is designed to integrate the humanities and to develop a Christian perspective on the arts, culminating in the development of a research topic. 1 credit.

## ENGLISH AS A SECOND LANGUAGE

**ESL 301 INTERMEDIATE READING & VOCABULARY** improves the students grasp of the English Language in the areas of vocabulary, comprehension, and speed in reading. Prerequisite: entrance examination taken and consent of the instructor. 4 credits.

**ESL 302 INTERMEDIATE ACADEMIC WRITING** is designed to improve the students' English language abilities in the areas of basic English grammar, sentence structure and paragraph writing. Use of the library is incorporated into this class. Prerequisite: entrance examination taken and consent of the instructor. 4 credits.

**ESL 303 INTERMEDIATE SPEAKING & LISTENING** is designed to improve the students' English language abilities in the areas of listening, speaking, and pronunciation. The use of the media (television, radio, movies, and plays) are important parts of this course. Prerequisite: entrance examination taken and consent of the instructor. 4 credits.

**ESL 321 ENGLISH PRONUNCIATION** assists students in improving their pronunciation and intonation patterns. 1 credit.

**ESL 322 U.S. CULTURE & TRADITIONS** provides information and experiences to acquaint students with American culture. 1 credit.

**ESL 399 TOEFL PREPARATION & ADVANCED GRAMMAR** provides the student an opportunity to practice the elements of the TOEFL and TWE tests: reading, listening, grammar and timed writings. Practicing good test taking techniques and vocabulary building are also important parts of the class. Open to all ESL students. 2 credits.

**ESL 401 ADVANCED READING** presents selected readings from American Literature and non-fiction sources. Readings include poetry, dialogues, novels, fiction, nonfiction, technical. Vocabulary building and novel length readings are also included in the course. Prerequisite: entrance examination taken, consent of the instructor and/or successful completion of ESL 301. 4 credits.

**ESL 402 ADVANCED ACADEMIC WRITING** prepares the student further in his/her writing skills. Students will learn various writing styles and conduct research. Prerequisite: entrance examination, consent of the instructor, and/or successful completion of ESL 303. 4 credits.

**ESL 403 ADVANCED SPEAKING & LISTENING** challenges the student to converse in English during role plays, practice drills, interviewing and debating. The students will also listen to weekly lectures given on a variety of topics by professionals in a given area. Prerequisite: entrance examination, consent of the instructor, and/or successful completion of ESL 302. 4 credits.

## FINANCE / ACTUARIAL SCIENCE

**FIN 200 PERSONAL FINANCE** is a valuable survey course which explores areas of finance which have a direct impact on the individual's lifestyle. Course topics are treated in a non-technical manner. These topics include personal budgeting, financial planning, cash management, credit and loans, home buying, insurance, consumer information, investing, tax planning, retirement planning, and estate planning. 3 credits.

**FIN 300 PRINCIPLES OF FINANCE** provides an introduction to the basic functions of financial management, including financial statements and analysis, financial markets, financial institutions, investment returns, capital budgeting methods, asset valuation, leverage, time value of money, dividend policy, and optimal capital structure. Prerequisite: ACCT 101. 3 credits.



**FIN 310 BASIC INVESTING** examines investors' activities and decision rules in the selection and management of financial assets. The focus of the course is financial instruments such as stocks, bonds, mutual funds, and derivatives, as well as the markets in which they are traded. The course will also emphasize the analytical approach to investment decision making. Prerequisite: FIN 300. 3 credits.

**FIN 315 PRINCIPLES OF INSURANCE** surveys methods of dealing with risk, including risk retention, prevention, and transfer. Insurance is a major means of risk transfer. Various kinds of insurance, such as liability, property, life, health and social insurance are examined. Prerequisite: FIN 300. 3 credits.

**FIN 320 MONEY AND BANKING** is a functional analysis of financial institutions with emphasis on commercial banking. It includes a review of the nature, history, and functions of money-creating depository institutions. It also includes an examination of the role of central banks and the implications of monetary and fiscal policy for economic growth, inflation, employment, trade and exchange rates. Prerequisites: ECON 222, ECON 231, and FIN 300. 3 credits.

**FIN 321 THEORY OF INTEREST/PROBABILITY** is designed to prepare students for the Society of Actuaries Exam P (Probability) and Exam FM (the Theory of Interest portion). Topics include univariate and multivariate probability distributions, conditional probability, moments and moment generating functions, transformations, simple interest, discretely and continuously compounded interest, annuities (payable discretely and continuously), nominal and effective interest rates, the force of interest function, amortization schedules, sinking funds, bonds and yield rates, and the application of interest theory to amortization of lump sums, fixed income securities, depreciation, and mortgages. Prerequisite: FIN 300. 3 credits.

**FIN 340 CORPORATE FINANCE** is the second undergraduate course in corporate finance. The primary goal of this course is to impart the knowledge to allow you to intelligently solve practical business problems. To achieve this goal, it is essential that you have a sound understanding of financial theory. As such, the course will be theoretical in nature, often requiring rigorous quantitative analysis. Topics that will be covered include complex time value of money problems, security valuation, risk and return, capital budgeting techniques, the term structure of interest rates, the capital asset pricing model, dividend policy, and stock repurchases. Prerequisite: FIN 300. 3 credits.

**FIN 430 INTERNATIONAL FINANCE** examines the role of international financial management with emphasis on multinational corporations. It discusses topics such as the foreign exchange market and determination of exchange rates, the exchange risk exposure as it impacts management's decisions, the multinational corporation (MNC) and foreign direct investment (FDI), the rationality of FDI flows, the management of foreign operations, and the determinants of international flows of goods and funds. Prerequisites: ECON 222, ECON 231, and FIN 300. 3 credits.

## GEOGRAPHY

**GEOG 220 CULTURAL GEOGRAPHY** Technology has now created the possibility and even the likelihood of a global culture. The Internet, fax machines, satellites, and cable TV are sweeping away cultural boundaries. Global entertainment companies shape the perceptions and dreams of ordinary citizens, wherever they live. This spread of values, norms, and culture tends to promote Western ideals of capitalism. Will local cultures inevitably fall victim to this global "consumer" culture? Will English eradicate all other languages? Will consumer values overwhelm peoples' sense of community and social solidarity? Or, on the contrary, will a common culture lead the way to greater shared values and political unity? This course looks at these and other issues of culture and globalization. 3 credits.

**GEOG 246 THE WORLD'S OCEANS** is a study of the chemical, geologic, physical, and biological features of Earth's oceans. Topics covered include the history of oceanography, chemistry and physical properties of sea water, waves, global currents & seas, and submarine morphology. The laboratory component gives students hands-on experience learning the topics covered by the course. Cross-listed (Oceanography) SCI 246. 4 credits.

**GEOG 250 ECONOMIC GEOGRAPHY** is the spatial study of the world's economic development and distribution of goods and services as measured by economic indicators such as per capita income and GNP; global demographics; and cultural patterns. The class is structured on a lecture, research, and presentation basis. The primary contributors to the class will be the students using information from the text and other sources. Prerequisite: GEOG 220 or permission of instructor. 3 credits.

**GEOG 271 THE GEOGRAPHY OF ISRAEL** is a study of the topography, geology, hydrology, climate, forestation, urbanization, land use, transportation and political divisions of ancient Israel. Each region of ancient Israel will be surveyed for its geography. The class will then measure the impact of that geography on biblical events (historical geography) and the impact of that geography upon the narration of those events (narrative geography). Prerequisite: Rel 100 or equivalent experience. 3 credits.

**GEOG 295 THE WORLD'S CLIMATES** provides a physical description of the weather variables (temperature, wind, moisture, pressure, solar radiation, vorticity, etc.) and the relationships that exist among them. This knowledge will be used to explain weather events such as frontal passages, cloud formation, thunderstorms, and tornadoes. This course will also investigate techniques of forecasting future weather events. Cross-listed (Meteorology) SCI 195. 3 credits.

**GEOG 311 PHYSICAL GEOGRAPHY** is an integrated study of the materials & physical features of the earth and the processes that form and shape them. Map skills are also developed. Cross listed SCI 135. 4 credits.

**GEOG 356 GLOBAL ENVIRONMENTAL ISSUES** is a study of current concerns, problems, and progress in addressing global environmental issues. Examples from different countries and cultures will be studied to illustrate these concerns and build a global perspective on environmental issues. Crosslisted SCI 256. 4 credits.

**GEOG 367 THE CARIBBEAN: ITS LAND AND PEOPLE** is a field study of tropical habitats and organisms as well as their interactions with humans. Requires class travel to the Caribbean or Central America. Students will experience the influence of Spanish, French, Dutch, British, African, and US cultures on this diverse region. Crosslisted: BIO 367 (Caribbean). 3 credits.

## GERMAN

**GER 101 BEGINNING GERMAN I** is for students who have had no previous formal course work in German. Students will begin to develop listening, speaking, reading, and writing skills in the German language. 4 credits.

**GER 102 BEGINNING GERMAN II** is a continuation of GER 101 and will develop those abilities in listening, speaking, reading, and writing begun in GER 101. Prerequisite: GER 101. 4 credits.

**GER 201 INTERMEDIATE GERMAN I** reviews of German syntax, morphology and vocabulary with readings in modern German literature. Prerequisite: GER 102 or equivalent. 3 credits.

**GER 202 INTERMEDIATE GERMAN II** puts continued emphasis on the refinement of German grammatical structures, reading ability, writing and conversational skills in German. Reading short stories and essays develops an appreciation of contemporary German Literature and culture. Prerequisite: GER 201 or equivalent. 3 credits.

**GER 301 GERMAN CONVERSATION AND COMPOSITION** provides extensive practice in conversational writing. This course is conducted primarily in the German language. Prerequisite: GER 202 or 4 years of successful high school German.

**GER 306 GERMAN LITERATURE FROM 1750 TO THE 20TH CENTURY** traces the development of German literature from the time of Lessing to the present. High reading comprehension ability in German is essential. Prerequisite: GER 202 or its equivalent. 3 credits.

**GER 307 APPLIED LINGUISTICS** introduces the basic terminology and concepts of linguistics as applied to the German language. It also presents the sound system, morphology, and syntax of German as compared to English and investigates topics in language acquisition. Prerequisite: GER 301. 3 credits.

**GER 331 ADVANCED GERMAN GRAMMAR & COMPOSITION** focuses on the review and syntax of the more difficult grammatical structures of the German language and on writing and conversational skills at the advanced level. Prerequisite: GER 301. 3 credits.

**GER 361 CIVILIZATION & CULTURE OF GERMAN-SPEAKING COUNTRIES** provides an overview of German history and culture from the beginnings to the present. Prerequisite: GER 202. 3 credits.

**GER 365 ISSUES IN CONTEMPORARY GERMANY** provides students with an opportunity to explore the issues that face a reunified German society. Prerequisite: GER 202. 2-3 credits.

## GRAPHIC DESIGN

**GD 100 DIGITAL DESIGN FUNDAMENTALS** Students become familiar with digital design communication strategies by exploring a variety perceptual and conceptual problems with Adobe Photoshop, Illustrator, iLife and other software as deemed appropriate by the instructor. Fulfills creative arts requirement in the Elective Core; no prior experience with course software is required. Studio Fee. 3 credits.

**GD 110 GRAPHIC DESIGN I** is geared for the specific needs of graphic design and communication majors. Adobe Illustrator, InDesign and the Macintosh computing platform are introduced as the industry standard tools for professional communication design. All Students become proficient with the software tools, a range of design strategies, and basic digital prepress concepts. Graphic Design students acquire skills needed for MIAD coop coursework. Prerequisite: recommended for Graphic Design, Communication and art majors only. Studio Fee. 3 credits.

**GD 111 GRAPHIC DESIGN II** is geared for the specific needs of graphic design and communication majors. Adobe Photoshop, iLife and the Macintosh computing platform are introduced as the industry standard tools for professional communication design. All Students become proficient with the software tools, a range of design strategies, and basic digital prepress concepts. Graphic Design students acquire skills needed for MIAD coop coursework. Prerequisite: recommended for Graphic Design, Communication and art majors only. Studio Fee. 3 credits.

**GD 360 WEB DESIGN I** introduces students to the practical aspects of web design techniques and technology. Provides basic understanding of the major applications used in commercial website design (including but not limited to Adobe Photoshop/Image Ready, Dreamweaver and Flash) and the integration of these applications into the workflow of site design, from the initial concept to final execution. Studio Fee. 3 credits.

**GD 361 WEB DESIGN II** building on basic skills developed in Web Design I, students gain increased familiarity with the standard applications of web design (Photoshop/Image Ready, Dreamweaver and Flash), interweaving them to create a more advanced web experience. Overall focus centers on design, but students will also learn more intricate coding. Key topics include Cascading Style Sheets (CSS), JavaScript (JS), Extensible Hypertext Markup Language (XHTML), Application Development (with PHP scripting and MySQL databases) and ActionScripting in Flash. Prerequisite: Web Design I. Studio Fee. 3 credits.

**GD 460 GRAPHIC OUTLOOK I** leverages advanced layout and design techniques for electronic and print media. Graphic Outlook students utilize a variety of software including but not limited to Adobe Creative Suites, Macromedia, iLife, iWork and Microsoft Office to solve real world design problems. Includes experience in prepress and client interface. Consent of instructor required. Studio Fee. 3 credits.

**GD 461 GRAPHIC OUTLOOK II** provides continued instruction in advanced layout and design for electronic and print media. Students utilize advanced software such as, Adobe Creative Suites, Macromedia, iLife, iWork and Microsoft Office work to create a professional portfolio and begin to develop a client base. Prerequisite: Graphic Outlook I. Studio Fee. 3 credits.

**GD 462 GRAPHIC OUTLOOK III** Prerequisite: Graphic Outlook Studio Fee. 3 credits.

**GD 463 GRAPHIC OUTLOOK IV** Prerequisite: Graphic Outlook Studio Fee. 3 credits.

## GREEK

The courses in Greek aim to acquaint the student with the language and literature, culture and thought of the ancient Greek civilization and of the New Testament world.

**GRK 201 GREEK I** presents elements of vocabulary, morphology, and syntax with a reading of simple Greek prose. 3 credits.

**GRK 202 GREEK II** is a continuation of vocabulary, morphology, and syntax with a reading of simple Greek prose. Prerequisite: GRK 201. 3 credits.

**GRK 303 GREEK III** allows the student to continue a study of fundamental Greek grammar while at the same time beginning to translate portions of John's Gospel. Further exercises include exegetical research, word studies, and cross-references. Prerequisite: GRK 202. 3 credits.

**GRK 304 GREEK IV** allows the student to study various sections of the Gospel of Matthew in the original Greek. Following the study of the original, further exercises would include exegetical research, word studies, and cross-references. Prerequisite: GRK 303. 3 credits.

**GRK 401 LUKE AND THE SEPTUAGINT** will study selected readings of the Greek Old Testament as they relate to the New Testament. Each student will study a variety of Old Testament texts in the Septuagint which are related to the Gospel of Luke in particular. Following the study of the original, further exercises include exegetical research, word studies, and cross-references. Prerequisite: GRK 304. 3 credits.

**GRK 402 NEW TESTAMENT AND THE SEPTUAGINT** will study large sections of I Corinthians and other select texts with a focus how the Apostle Paul interprets the Old Testament texts. Following the study of the original, further exercises include exegetical research, word studies, and cross-references. Prerequisite: GRK 401. 3 credits.

**GRK 414 EPIC POETRY** studies selected readings of the Greek poets Babrius, Hipponax, Homer, Euripides, and Sophocles, with readings progressing from the relatively easy to the more difficult. Prerequisite: GRK 304. 3 credits.

**GRK 420 GREEK READINGS: CHURCH FATHERS** allows the student to study various sections of the Church Fathers. Selected passages from the Church Fathers will be translated in clear, typewritten, polished, contemporary English idiom. Prerequisite: GRK 202. 3 credits.

## HEALTH AND HUMAN PERFORMANCE

**HHP 100 INTRODUCTION TO LIFETIME FITNESS** is an exposure to a variety of lecture and laboratory programs designed to give the student insights into the physiological values of activity. 1 credit.

**HHP 111 AQUATICS I** introduces the student to water safety skills, and the basic principles of flotation. The student is also introduced to basic arm and leg movements for the front crawl. Prerequisite: HHP 100. 1 credit.

**HHP 112 AQUATICS II** introduces the student to the basic nine styles of swimming along with advanced deep water skills such as treading water, sculling, and the survival float. Prerequisite: HHP 100. 1 credit.

**HHP 120 WEIGHT TRAINING** is designed to introduce the student to the principles and techniques of weight training through the use of weight machines and free weights. Prerequisite: HHP 100. 1 credit.

**HHP 121 BEGINNING TENNIS** introduces the student to the basic ground strokes of tennis, develops an elementary serving skill and familiarizes the student with the basic rules of the sport. Prerequisite: HHP 100. 1 credit.

**HHP 122 BADMINTON** introduces the student to singles and doubles strategies along with developing serving style and basic strokes. Prerequisite: HHP 100. 1 credit.

**HHP 124 AEROBICS** is designed to expose the student to a variety of different aerobic activities, help the student understand how to structure these activities to meet personal fitness goals, and assist the student in becoming more aware of the experiential nature of aerobic activity. Prerequisite: HHP 100. 1 credit.

**HHP 125 GOLF** introduces the grip, stance, and swinging pattern designed for successfully striking the golf ball. The putting stroke along with club selection, rules, and proper etiquette are also explained. Prerequisite: HHP 100. 1 credit.

**HHP 126 ARCHERY** introduces the student to the equipment and shooting procedures used in archery. Safety is stressed as students attempt to become skilled in this unique sport. Prerequisite: HHP 100. 1 credit.

**HHP 128 ADVANCED TENNIS** is designed for students who have average skill in the basic ground strokes of tennis but would like an exposure to the volley, overhead, and advanced serving skills. Prerequisite: HHP 221 or instructor's permission. 1 credit.

**HHP 129 BOWLING** introduces the approach, release, and delivery for satisfactory participation in the recreational sport of bowling. Scoring, strike adjustment systems, and spare conversion techniques are also presented. Prerequisite: HHP 100. 1 credit.

**HHP 130 ADVANCED WEIGHT TRAINING** analyzes the techniques and skills of weight training to achieve individual goals. The course will go over various core lifts, Olympic lifts, and repetition strength testing. Prerequisite: HHP 120 or instructor's permission. 1 credit.

**HHP 131 SOCCER** introduces the student to offensive and defensive skills needed to play soccer successfully. Dribbling, passing, shooting, heading, feinting, guarding, and goal keeping are among the skills covered. Prerequisite: HHP 100. 1 credit.

**HHP 132 BASKETBALL** develops a student's basic offensive and defensive skills. Basic team concepts are developed along with an increased awareness of rules and strategies. Prerequisite: HHP 100. 1 credit.

**HHP 133 BEGINNING VOLLEYBALL** is an entry level course, which emphasizes the development of basic volleyball skills and team systems. Attention is also given to the history and rules of volleyball. Prerequisite: HHP 100. 1 credit.

**HHP 134 SOFTBALL** is designed to develop and refine throwing, catching, fielding, hitting and baserunning skills. Rules and strategies for slow pitch softball are also covered. Prerequisite: HHP 100. 1 credit.

**HHP 140 CROSS COUNTRY SKIING** covers beginning skiing skills including the diagonal stride, stationary and moving turns, uphill techniques and downhill techniques. Prerequisite: HHP 100. 1 credit.

**HHP 141 ADVANCED SOCCER** is a course designed to help experienced soccer players improve their soccer skills and also help them better understand the 17 laws of the game. Prerequisite: HHP 131 or instructor's permission. 1 credit.

**HHP 142 BEGINNING DOWNHILL SKIING** is a course designed to introduce students to the sport of skiing or increase the proficiency of novice skiers. This course teaches the techniques required to achieve basic competency in putting on equipment, navigating lifts, reorienting after a fall, turning, and stopping on skis. Prerequisite: HHP 100. 1 credit.

**HHP 143 ADVANCED VOLLEYBALL** is designed to help experienced volleyball players improve their volleyball skills and better understand the strategies of team play. Prerequisite: HHP 100. 1 credit.

**HHP 145 RUNNING FOR FITNESS** will meet formally once a week to discuss training, nutrition, strategy, injury prevention and treatment and other performance-based topics. In addition, students in this course will be introduced to literature related to the sport—fiction and non-fiction, technical and philosophical, for regular discussion. Along with formal classroom sessions, students will join faculty for regular training runs to build up toward the targeted goal. Prerequisite: HHP 100. 1 credit.

**HHP 160 WALKING FOR WELLNESS** is designed to utilize walking for fitness development, stress reduction, and personal wellness. Prerequisite: HHP 100. 1 credit.

**HHP 161 OUTDOOR ADVENTURE I: KAYAK/CANOE** is designed to give students the basic skills and information needed to successfully and safely participate in the sport of kayaking and canoeing. Students will be given hands-on opportunities in the various skills and techniques of kayaking and canoeing. Topics to be covered are: safety, paddle strokes, personal equipment, basic map reading, and river reading. 1 credit.

**HHP 162 OUTDOOR ADVENTURE II: ROCK-CLIMBING/RAPPPELLING** is designed to give students the basic skills and information needed to successfully and safely participate in the sport of rock-climbing and rappelling. Students will be given hands-on opportunities in the various skills and techniques of rock-climbing and rappelling. Topics to be covered are: types of ropes, knot(s), webbing, anchors, edge protections, personal equipment, figure 8 descenders, and accompanying hardware necessary for safe sport participation. 1 credit.

**HHP 163 FRESHMAN FAST-TRACK I** will allow each student the opportunity to practice athletic training and basic psychomotor skills (hands-on). 2 credits.

**HHP 164 FRESHMAN FAST-TRACK II** will allow each student the opportunity to practice advanced athletic training and basic psychomotor skills (hands-on). Prerequisite: HHP163. 1 credit.

**HHP 165 CYCLING** is designed to introduce the student to cycling as a form of aerobic exercise. Basic care and maintenance of equipment, safety, and riding techniques will be covered as well as the relationship between cycling and wellness. Prerequisite: HHP 100. 1 credit.

**HHP 166 PRACTICAL SELF DEFENSE** introduces students to basic skills and concepts of personal self defense. Practical applications in daily living and escape skills are highlighted. 1 credit.

**HHP 167 STUNTS AND TUMBLING** introduces students to introductory and intermediate level tumbling skills such as forward, shoulder, backward, and log rolls, cartwheels, round-offs, and neck springs. Balances such as tripod, elbow, head, and hand will also be learned along with simple stunts. Spotting techniques and safety measures will also be emphasized. 1 credit.

**HHP 168 PICKLEBALL** introduces students to basic skills and concepts of pickleball. This recreational activity course will include beginning skills, rules, and strategies of play. Singles and doubles play will be utilized. 1 credit.

**HHP 171 INTRODUCTION TO EXERCISE SCIENCE** introduces students to the field of exercise science and the Department of Health & Human Performance at Concordia University Wisconsin. The fields of athletic training, exercise physiology, health education and physical education are covered as students receive an overview of each field for the first seven weeks. The second seven weeks are used to give students the opportunity to investigate through clinical experiences the nature and scope of their particular field of interest. 1 credit.

**HHP 205 FIRST AID AND EMERGENCY PROCEDURES** will prepare students to make appropriate decisions regarding first aid care and to act skillfully on those decisions. Students will be given the opportunity to take the American Red Cross Certification Examinations for both Community CPR and Standard First Aid. Students will also address special concerns in the athletic population such as equipment removal, stabilization, and airway management. First Aid and Emergency Procedures Lab will allow students the opportunity to practice first aid and CPR skills in a controlled environment and to make life-saving decisions on practice mannequins. Students will also perform carries and transportation techniques on suspected spine-injured victims. 3 credits.

**HHP 208 DEVELOPING TEACHING SKILLS IN PHYSICAL EDUCATION** introduces physical education majors to basic knowledge, concepts and skills of teaching. National, State and local standards and teaching practices are introduced. Concepts related to best practice teaching (e.g., unit and lesson plan development, skill level analysis, appropriate feedback) are explored. This course serves as a pre-requisite to all "teaching courses" within the Physical Education Major program. 1 credit.

**HHP 209 FIRST AID AND CPR** is an American Red Cross training program designed to prepare individuals to respond to injuries and sudden illnesses that may arise. Students will gain the knowledge and skills to prevent, recognize, and provide basic care for injuries and sudden illnesses until medical professionals arrive and take over. AED instruction is included. 2 credits.

**HHP 250 TEACHING CORE ACTIVITIES II – RECREATIONAL DANCE** includes instruction in methods, skills, knowledge and procedures for performing and teaching various dance forms and dance related activities such as folk, square, ballroom, and line dancing. Teaching progressions, music selection, and class organization will be emphasized. Rhythms and current trends will be included. Teaching opportunities in a clinical setting will also be required. Prerequisite: HHP 171, HHP 208. 3 credits.

**HHP 254 TEACHING CORE ACTIVITIES I – FOUNDATIONS OF FITNESS** this course provides students with the knowledge and skills necessary to teach elementary and secondary school students the cognitive, affective, and behavioral skills for a healthy lifestyle. The course is based upon the five health-related components of physical fitness. Prerequisite: HHP 171, HHP 208. 3 credits.

**HHP 260 PERSONAL, FAMILY AND COMMUNITY HEALTH** seeks to provide participants with a greater understanding of the factors that contribute to individual and societal health. Current health status, health behavior trends and health decisions are discussed and correlated as actions that may reduce risk of disease. Participants will also integrate themselves into the community to learn and share more about health care providers. 3 credits.

**HHP 265 HEALTHY LIFESTYLES** focuses on the knowledge and skills that are essential to preventing or delaying various health problems. Emphasis will be placed on preventing cardiovascular disease, diabetes and cancer. The information presented and the activities experienced will assist the students in making educated decisions regarding healthy behavior patterns. 3 credits.

**HHP 272 INTRODUCTION TO ATHLETIC TRAINING** is designed to give the student an understanding of the field of athletic training and to develop knowledge, skills, and values of the various components related to the athletic training profession. 3 credits.

**HHP 273 INTRODUCTION TO ATHLETIC TRAINING LAB** is designed to give the student the opportunity to practically apply various skills related to the athletic training profession. To be taken in conjunction with HHP 272. 0 credits.

**HHP 275 ADMINISTRATION AND ORGANIZATION OF PHYSICAL EDUCATION AND ATHLETICS** introduces the student to administrative and organizational policies, procedures, budget principles, public relations, legal considerations, event management, safety consideration and other issues at all levels of sport. Students are involved in selected hands-on experiences at various levels and types of participation. 3 credits.

**HHP 280 PSYCHOLOGY OF SPORT** introduces students to various psychological tools and techniques designed to help athletes reach their potential. This course covers assessment strategies, trends and measurement techniques. It provides students with strategies for assisting athletes to perform well. 3 credits.

**HHP 281 THEORIES AND TECHNIQUES OF COACHING SOFTBALL** provides students with the theoretical and philosophical information necessary for the successful coaching of softball as well as skill analysis, drill development, tactics, strategies and other coaching techniques. 2 credits.

**HHP 282 THEORIES AND TECHNIQUES OF COACHING BASKETBALL** provides students with the theoretical and philosophical information necessary for the successful coaching of basketball as well as skill analysis, drill development, tactics, strategies and other coaching techniques. 2 credits.

**HHP 284 THEORIES AND TECHNIQUES OF COACHING FOOTBALL** provides students with the theoretical and philosophical information necessary for the successful coaching of football as well as skill analysis, drill development, tactics, strategies and other coaching techniques. 2 credits.

**HHP 286 THEORIES AND TECHNIQUES OF COACHING TRACK AND FIELD** provides students with the theoretical and philosophical information necessary for the successful coaching of track and field. Event analysis, training theory, individual and team strategies and other coaching techniques are covered. 2 credits.

**HHP 287 THEORIES AND TECHNIQUES OF COACHING SOCCER** provides students with the theoretical and philosophical information necessary for the successful coaching of soccer as well as skill analysis, drill development, tactics, strategies and other coaching techniques. 2 credits.

**HHP 288 THEORIES AND TECHNIQUES OF COACHING VOLLEYBALL** provides students with the theoretical and philosophical information necessary for the successful coaching of volleyball as well as skill analysis, drill development, tactics, strategies and other coaching techniques. 2 credits.

**HHP 289 ATHLETIC TRAINING SEMINAR** is designed to have all levels of athletic training students meet to study specific athletic training competencies. Opportunities will also be provided for outside speakers in the medical field to present on various topics specific to athletic training competencies. This course is taken consecutively for six semesters beginning with the first semester in the Athletic Training Education Program. 1 credit.

**HHP 290 THEORIES AND TECHNIQUES OF COACHING WRESTLING** provides students with the theoretical and philosophical information necessary for the successful coaching of wrestling. Execution and analysis of moves, drill development, tactics, strategies and other coaching techniques are covered. 2 credits.

**HHP 291 ATHLETIC TRAINING PRACTICUM I** is designed to formally structure a minimum of 150 hours of clinical experience specific to the first semester of enrollment in the Athletic Training Educational Program. It includes 50% observation and 50% hands-on experience with a Concordia University athletic team. The purpose of this course is to incorporate specific clinical proficiencies with real life athletic and injury situations. Prerequisites: HHP 242 and HHP 272/273. 3 credits.

**HHP 292 ATHLETIC TRAINING PRACTICUM II** is designed to formally structure a minimum of 150 hours of clinical experience specific to the second semester of enrollment in the Athletic Training Education Program. It includes 50% observation and 50% hands-on experience with both a Concordia University athletic team and in a clinical setting. The purpose of this course is to incorporate specific clinical proficiencies with real life athletic and injury situations. Prerequisites: HHP 291. 3 credits.

**HHP 301 REHABILITATION TECHNIQUES OF ATHLETIC INJURIES** involves the study, methods, and application of rehabilitation techniques as they relate to athletic injuries. Prerequisites: HHP 272/273. 3 credits.

**HHP 302 REHABILITATION TECHNIQUES OF ATHLETIC INJURIES LABORATORY** is a laboratory investigation of the various rehabilitation techniques used with common athletic injuries. It is designed to be taken in conjunction with HHP 473. 0 credits.

**HHP 303 THERAPEUTIC MODALITIES** introduces the student to the physiological principles and applications of cryotherapy, thermotherapy, electrostimulation, massage, intermittent compression, traction, and hydrotherapy. This course will explore the various applications of modalities as they relate to orthopedic athletic injuries. Prerequisites: BIO 270/271, BIO 272/273, HHP 272/273, HHP 372/374, and HHP 473/474. 3 credits.

**HHP 304 THERAPEUTIC MODALITIES LABORATORY** is an investigation and application of modalities commonly used for athletic injuries. The student will have the opportunity to analyze and use ultrasound, diathermy, massage, paraffin bath, hydrocolator packs, intermittent compression, various electrical stimulation devices, whirlpool usage, mechanical traction, and various cryotherapy methods. It is designed to be taken in conjunction with HHP 476. 0 credits.

**HHP 312 ADMINISTRATION AND ORGANIZATION OF ATHLETIC TRAINING** exposes the student to management theory, budget preparation, care and purchase of equipment/modalities, legal considerations, athletic training facility design and management, and public relations. It also addresses the administration and organization of athletic training rooms in non-traditional settings. Prerequisites: HHP 272/273. 3 credits.

**HHP 330 MANUAL MUSCLE TESTING** introduces the various positions and techniques of manual muscle testing. Prerequisites: HHP 272/273, BIO 270/271, and BIO 272/273. 2 credits.

**HHP 342 NUTRITION FOR WELLNESS AND PERFORMANCE** introduces the student to the principles of nutrition for wellness. It emphasizes the importance of good nutrition to promote a healthy lifestyle, enhanced performance, prevent injury and foster wellness throughout life. Real world application is emphasized. Environmental concerns, hunger, and consumerism are also discussed. 3 credits.

**HHP 348 PALPATORY ANATOMY OF THE HUMAN BODY** is an investigation of the various musculoskeletal structures of the human body. Students will learn and apply palpatory techniques in identifying musculoskeletal structures. Prerequisites: HHP 272/273, BIO 270/271, and BIO 272/273. 2 credits.

**HHP 355 TEACHING CORE ACTIVITIES III – METHODS, SKILLS AND ACTIVITIES** includes instruction in theories, techniques, and progressions of various sport activities. Students will be given the opportunity to practice-teach in a variety of physical activities and lifetime sports. Unit and lesson plans will be completed. Teaching methodologies, skill progressions, authentic assessment and developmentally appropriate content material will be addressed. Prerequisite: HHP 171; HHP 208. 3 credits.

**HHP 356 - TEACHING CORE ACTIVITIES IV – METHODS, SKILLS AND ACTIVITIES** focuses on the development of teaching methods and pedagogies of a variety of sports and activities within a physical education environment. Particular attention will be paid to analysis of skill execution and use of cues. Teaching knowledge, progressions and skills which cut across activities will be addressed. Lesson and unit plan development will be emphasized with a focus on authentic assessment techniques. Prerequisites: HHP 171; HHP 208; HHP 355. 3 credits.

**HHP 361 TECHNOLOGY IN HEALTH AND HUMAN PERFORMANCE** will show students how to incorporate technology into the classroom, gymnasium, recreation venues and related health facilities. The course will give students the opportunity to access, use, interpret, utilize and evaluate various sources of information technology. Concepts related to best practice teaching (e.g., unit and lesson plan development, application of technology to assist in fitness assessment, lifelong activity engagement, and individual wellness pursuits) are explored. 3 credits.

**HHP 371 EXERCISE PHYSIOLOGY** involves the application of anatomical and physiological processes to human movement, physical performance and rehabilitation. Prerequisites: BIO 270 or BIO 276; BIO 272 or BIO 278. 3 credits.

**HHP 372 RECOGNITION AND EVALUATION OF ATHLETIC INJURIES I** involves the study of the assessment and management of athletic injuries to the foot, ankle, lower leg, knee, shoulder, elbow, wrist and hand. HHP 374 must be taken in conjunction with HHP 372. Prerequisites: HHP 272, BIO 270 and BIO 271. 3 credits.



**HHP 373 MOTOR DEVELOPMENT** focuses on developmental principles as they apply to movement and are influenced by the maturational process. An integrative approach will be used emphasizing the role of movement and physical activity in an individual's total growth and development from birth through adulthood. Youth sport will also be studied. 3 credits.

**HHP 374 RECOGNITION AND EVALUATION OF ATHLETIC INJURIES I LABORATORY** is an investigation into goniometry, anatomy, and the evaluation components of assessing athletic injuries to the foot, ankle, lower leg, knee, shoulder, elbow, wrist and hand. It is designed to be taken in conjunction with HHP 372. 0 credits.

**HHP 375 BIOMECHANICS** provides students with an understanding of mechanical principles such as force, inertia, momentum, and friction. Students will have the opportunity to apply these principles to various movement, rehabilitation and skill activities. Prerequisites: BIO 270 or BIO 275; BIO 272 or BIO 276. 3 credits.

**HHP 376 RECOGNITION AND EVALUATION OF ATHLETIC INJURIES II** involves the study of the assessment and management of athletic injuries to the thigh, pelvis, abdomen, spine, head/cervical, heat/cold emergencies and cardiopulmonary conditions. Prerequisites: HHP 272, HHP 273, BIO 270, BIO 271, HHP 372, and HHP 374. 3 credits.

**HHP 378 RECOGNITION AND EVALUATION OF ATHLETIC INJURIES II LABORATORY** is an investigation into the anatomy, and the evaluation components of assessing athletic injuries to the thigh, pelvis, abdomen, spine, head/cervical, heat/cold emergencies and cardiopulmonary conditions. It is designed to be taken in conjunction with HHP 376. 0 credits.

**HHP 381 CURRICULUM AND METHODS OF TEACHING SECONDARY HEALTH AND PHYSICAL EDUCATION** introduces the student to a variety of physical education concepts, pedagogical practices and age-appropriate activities for teaching physical education and health in secondary schools. Concepts, teaching methods, curriculum development and authentic assessment strategies introduced in previous courses will be expanded upon. Opportunities to apply and put educational theory into practice will be provided. Students will "practice teach" in both the classroom and the gymnasium. They will create materials needed as a future teacher. Prerequisites: HHP 171, HHP 167, HHP 208, HHP 250, HHP 254, HHP 355, and HHP 356. 3 credits.

**HHP 391 ATHLETIC TRAINING PRACTICUM III** is designed to formally structure a minimum of 150 hours of clinical experience specific to the third semester of enrollment in the Athletic Training Education Program. Includes 25% observation and 75% hands-on with either a Concordia University athletic team or in a clinical setting. The purpose of this course is to incorporate specific clinical proficiencies with real life athletic and injury situations. Prerequisites: HHP 292. 3 credits.

**HHP 392 ATHLETIC TRAINING PRACTICUM IV** is designed to formally structure a minimum of 150 hours of clinical experience specific to the fourth semester of enrollment in the Athletic Training Education Program. This course will give the student the opportunity to be a head student athletic trainer with a Concordia University athletic team (100% hands-on) or 100% hands-on with a high school athletic team (outside rotation). The purpose of this course is to incorporate specific clinical proficiencies with real life athletic and injury situations. Prerequisites: HHP 391. 3 credits.

**HHP 403 ADVANCED INJURY MANAGEMENT** Advanced injury management expounds on the student's knowledge of therapeutic modalities and rehabilitation principles by allowing the student to synthesize previously taught treatment options with newly introduced advanced therapeutic modalities and manual therapy techniques. This course will act as a capstone course and allow the student the opportunity to master their skills in the management of athletic injuries. Orthotic fabrication will also be discussed. Prerequisites: HHP 301/302 Rehabilitation Techniques and HHP 303/304 Therapeutic Modalities. 2 credits.

**HHP 404 CURRICULUM AND METHODS OF TEACHING ELEMENTARY HEALTH AND PHYSICAL EDUCATION** introduces the student to a variety of physical education concepts, pedagogical practices and age appropriate activities for teaching physical education to elementary-aged children. The course focuses upon best practice principles and authentic assessment techniques as applied in the physical education setting. Students are given teaching opportunities in a variety of activities and clinical settings. Prerequisites: HHP 171, HHP 167, HHP 208, HHP 250, HHP 254, HHP 355, and HHP 356. 3 credits.

**HHP 407 PROFESSIONAL FOUNDATION OF PHYSICAL EDUCATION AND SPORT** introduces the student to the fundamental knowledge, concepts and principles of sport. The history, social, ethical, psychological, and cultural interactions and interrelatedness of a variety of peoples upon sport, physical education and physical activity are explored. This is a capstone course that requires the design, writing and presentation of a "special topic" of the student's choice in the form of a written and oral presentation. Prerequisites: HHP 171, HHP 167, HHP 208, HHP 250, HHP 254, HHP 355, and HHP 356. 3 credits.

**HHP 408 PHARMACOLOGY AND ERGOGENIC AIDS** is designed to examine pharmaceutical drug applications, interactions and their value to the injury-healing process and athletic performance. Ergogenic aids will be reviewed in the context of their physiological application, moral and ethical values, and athletic performance. Prerequisites: BIO 270/271, BIO 272/273, HHP 371 and HHP 342. 3 credits.

**HHP 410 MEASUREMENT AND EVALUATION IN HEALTH AND PHYSICAL EDUCATION** focuses on assessment techniques in health and physical education. This course discusses and provides methods for creating appropriate assessments, models for performance-based assessments, authentic assessments, and instruction for administering skill and fitness tests. Test construction will be examined. Students will develop a battery of assessment tools, intended for use at the elementary, middle, and high school levels. 3 credits.

**HHP 412 ADAPTED PHYSICAL EDUCATION** includes the study of those conditions and unique needs of the special needs child in the physical education environment. This course provides the student with knowledge of specific disabilities and impairments as they relate to a physical education and recreational setting. Concepts of inclusion and least restricted environments are presented. Teaching techniques, progressions and program modifications are reviewed for various environmental situations. Prerequisite: ED 230. 3 credits.

**HHP 414 WOMEN IN SPORT** is designed to critically analyze the structure and relationship of women in sport. The primary focus will be women in sports in the United States. However, when possible and relevant the course will refer to women and sport in other societies. Areas that will be investigated include: gender issues; a historical perspective; government policy; institutionalization of women's sport; psychological perspectives; economics of sports and women; and changing times-issues and controversies. Recommended juniors and seniors. 3 credits.

**HHP 428 MOVEMENT SKILLS IN EARLY CHILDHOOD** familiarizes the student with the reflective approach to teaching skill themes and movement concepts. Students will gain an understanding of the techniques involved in skillfully teaching the fundamental motor skills to young children and learn to apply this knowledge in a clinical setting. 2 credits.

**HHP 442 EXERCISE TESTING AND PRESCRIPTION** focuses on the theoretical and applied knowledge required to conduct safe and effective graded exercise tests and fitness evaluations for healthy and "at risk" populations. Students will be expected to design effective exercise programs based on the evaluative tests. Clinical Exercise Physiology including basic electrocardiography, cardiovascular medications, and client/patient risk stratification is included in the course. Additional lab time required. Prerequisite or co requisite: HHP 371. 4 credits.

**HHP 460 INTERNSHIP** is designed to expose the student to various aspects involved with health care and rehabilitation. Although the student is only at the pre-professional level, he/she can be involved in the observation, assistance, and discussion of patients' treatment and care, as the supervising professional deems appropriate. 3-6 credits.

**HHP 471 ADVANCED EXERCISE PHYSIOLOGY** is an in-depth look at the acute and chronic adaptations of the body to physical stress. Energy metabolism, cardiorespiratory physiology, endocrine physiology, and body composition analysis are some of the areas of emphasis in the course. Laboratory participation involving maximal oxygen consumption testing, body composition analysis, blood lactate analysis, spirometry, and submaximal aerobic capacity tests is expected of all students. Prerequisite: HHP 371. 4 credits.

**HHP 475 SEMINAR IN EXERCISE PHYSIOLOGY** requires students to select research articles from current topics in Exercise Physiology. Students will analyze, evaluate and discuss the methodology of the selected research topics. In addition, the importance of the Institutional Review Board in conducting research will be covered as a preparation for HHP 495 Senior Seminar's research project. Prerequisites: MATH 205, HHP 471. 2 credits.

**HHP 480 PROGRAM DESIGN AND APPLICATION OF STRENGTH AND CONDITIONING PRINCIPLES** will examine the various anatomical and physiological aspects associated with strength and conditioning. A detailed analysis of skeletal muscle physiology will be presented during the first part of the course. The students will have opportunities to analyze and design a strength and conditioning program for athletes from various sports or for individuals with special needs. Prerequisites: HHP 100, HHP 120, HHP 130 or HHP 371. 3 credits.

**HHP 490 PRACTICUM IN COACHING** is designed to give the student-coach an opportunity to gain field experience by working with a community sports program under the direction and guidance of an experienced coach. Taken after all other coaching courses are completed. 2-3 credits.

**HHP 491 ATHLETIC TRAINING PRACTICUM V** is designed to formally structure a minimum of 150 hours of clinical experience specific to the fifth semester of enrollment in the Athletic Training Education Program. This course will give the student the opportunity to be a head student athletic trainer with a Concordia University athletic team and will be 100% hands-on. The purpose of this course is to incorporate specific clinical proficiencies with real life athletic and injury situations. Prerequisite: HHP 392. 3 credits.

**HHP 492 ATHLETIC TRAINING PRACTICUM VI** is designed to formally structure a minimum of 150 hours of clinical experience specific to the sixth semester of enrollment in the Athletic Training Education Program. The student will have an outside rotation at a local high school (100% hands-on) or medical clinic. The purpose of this course is to incorporate specific clinical proficiencies with real life athletic and injury situations. Prerequisites: HHP 491. 3 credits.

**HHP 493 SENIOR SEMINAR FOR ATHLETIC TRAINING** will offer the student the opportunity to explore topics in athletic training/sports medicine under the direction of the instructor. Intensive study, critical examination and analysis of pertinent research will form the basis of the course. Seminar work may include individual and/or group investigation of topics, problems, or issues with written and oral presentation. This required course is only open to seniors. 3 credits.

**HHP 494 EXERCISE IN CHRONIC DISEASE** is intended to examine the characteristics, physiological responses, and exercise adaptations of individuals with select chronic diseases. Includes Parkinson's disease, cardiopulmonary abnormalities, multiple sclerosis, cancer, and metabolic disease/disorders. Emphasis will be on basic pathophysiology plus exercise limitations, responses, and adaptations for each disease state. Prerequisite: HHP 442. 3 credits.

**HHP 495 SENIOR SEMINAR FOR EXERCISE PHYSIOLOGY** involves the design and conducting of an Exercise Physiology-related research study in collaboration with other students in the class. Students will submit an IRB application, conduct the research, analyze the data, and present the results. Potential exists for the submission of the research project to a regional or national Exercise Physiology organization for publication. Senior status required. 3 credits.

## HEBREW

**HEB 301 HEBREW I** presents the elementary elements of Biblical Hebrew with an introduction to vocabulary, morphology and syntax. At the conclusion of this course, students will have the ability to read elementary Hebrew prose. 3 credits.

**HEB 302 HEBREW II** advances the student's competence with Biblical Hebrew by involving the student in a more advanced study of vocabulary, morphology and syntax. Special emphasis will be given to the verbal system. At the conclusion of this course, students will be able to translate basic narratives of the Old Testament. Prerequisite: HEB 301. 3 credits.

**HEB 401 HEBREW III** is a Hebrew reading course that reads selected passages from the narrative portions of the Torah. Along with this reading, students develop their skills with the Hebrew weak verb system and further develop their vocabulary skills. Prerequisites: HEB 302. 3 credits.

**HEB 402 HEBREW IV** is a Hebrew reading course that reads selected passages from the narrative, legal and poetic portions of the Old Testament. Along with this reading, students further develop their verb identification skills and vocabulary skills. Students will also learn about the history of the Hebrew Bible, the Masoretic tradition, and lower text criticism. Prerequisites: HEB 401. 3 credits.

## HISTORY

**HIST 103 WORLDVIEWS: HISTORY** provides the student with an examination of the chronology and major themes of Western Civilization through study of primary and secondary sources. Fulfills core history requirement. 3 credits.

**HIST 153 AMERICAN CIVILIZATION** is a survey of the history of the United States from pre-Columbian America to the present. It will explore political, ideological, social and religious changes that have occurred in the American story. 3 credits.

**HIST 163 NON-WESTERN WORLD: A HISTORY** is a survey of the peoples and cultures of Africa, Asia, the Middle-East, the Pacific Rim, and pre-Columbian America, providing the students background to make sense of these increasingly important regions in the world. 3 credits.

**HIST 208 HISTORY OF CHRISTIANITY** offers a broad introduction to the history of Christianity, from its beginnings, through the Reformation, to the denominations of the modern era. Major events, doctrinal developments and distinctions, key figures and problems will be emphasized. Prerequisite: HIST 103. 3 credits.

**HIST 215 THE CIVIL WAR** explores the period 1861-65 when the country was rent apart by the most divisive war in American history, the war which has done the most to define American political, economic, and social realities. Taught as a telecourse. Crosslisted AL 262. 3 credits.

**HIST 221 THE ANCIENT WORLD** examines the major cultures of the ancient Near East from the earliest times to development of Archaic Greece and offers a backdrop to the world of the Old Testament. Fulfills core cross-cultural requirement. Prerequisite: HIST 103. 3 credits.

**HIST 241 INTRODUCTION TO LATIN AMERICA** explores the history and culture of Central and South America and the Caribbean from the Aztecs, Incas, and Mayas to the present. Fulfills core cross-cultural requirement. Prerequisite: HIST 103. 3 credits.

**HIST 243 MODERN AFRICA** examines the political, economic, social & ethnic issues confronting contemporary Africa. Among the historical issues explored in the course includes the Atlantic slave trade, 19th century imperialism, colonialism, post-war decolonization, ethnic conflicts, AIDS and globalization. Prerequisite: HIST 103. 3 credits.

**HIST 246 HISTORY OF JAPAN** is an introduction to the history of Japan, emphasizing Japan's distinctive cultural, spiritual, political, educational, artistic, and social life. The antecedents of modern Japan are traced from ancient and feudal times. A comparison and contrast is made between the cultures of Japan and the United States. Fulfills core cross-cultural requirement. Prerequisite: HIST 103. 3 credits.

**HIST 250 MODERN MIDDLE EAST** surveys the rise and disintegration of the Ottoman Empire as well as 20th-century developments in the Middle East, with particular emphasis on the Arab-Israeli conflict. Prerequisite: HIST 103. 3 credits.

**HIST 277 BYZANTIUM** offers an overview of the history of the Byzantine Empire, starting with the division of the Roman Empire into Eastern and Western halves by the Emperor Diocletian to the fall of Constantinople, the capital of the Byzantine Empire, to the Ottoman Turks in 1453. Political, cultural, religious and social aspects of the Empire will be surveyed and Byzantium's relations with various regions, particularly Western Europe, the emerging Russia, and the Islamic world will be emphasized. Prerequisite: HIST 103. 3 credits.

**HIST 284 IMPERIAL CHINA** explores China's ancient history. It also introduces students to ancient Chinese culture through a number of cultural activities. Fulfills core cross-cultural requirement. Prerequisite: HIST 103. 3 credits.

**HIST 285 MODERN CHINA** examines China's modern history from the Qing dynasty to the present. It also introduces students to Chinese culture through a number of cultural activities. Fulfills core cross-culture requirement. Prerequisite: HIST 103. 3 credits.

**HIST 309 EARLY AMERICA: 1492-1787** examines the early heritage of the U.S. from the native Americans to the Constitution of 1787. The course explores such topics as the beginnings of our multi-cultural society, the growth of representative government, and the diverse economic and social values in early America. Prerequisite: 100-level history course. Prerequisite: HIST 103. 3 credits.

**HIST 322 THE CLASSICAL WORLD** surveys the history of Classical Greece, the Hellenistic World, Ancient Rome, and early Christianity with emphasis upon social, political, economic, and cultural interrelationships. Prerequisite: HIST 103. 3 credits.

**HIST 330 HISTORY OF MODERN EUROPE** studies developments in European social, political, economic, religious, and cultural history from the French Revolution to the present. Prerequisite: HIST 103. 3 credits.

**HIST 351 INDUSTRIAL AMERICA, 1861-1920** explores the development of the United States from an agrarian to an industrial nation and from a hemispheric to a world power. Prerequisite: HIST 103. 3 credits.

**HIST 352 UNITED STATES AS A WORLD POWER, 1920-PRESENT** is a study of the political, economic, social, and intellectual development of the U.S. since World War I. Several important events and representative figures of the period will be studied in depth. Prerequisite: HIST 103. 3 credits.



**HIST 356 THE MIDDLE AGES** surveys the political, economic, religious, and social development of Europe from the decline of the Roman Empire through the 14th century. Prerequisite: HIST 103. 3 credits.

**HIST 358 EARLY MODERN EUROPE** presents an overview of European history from the 14th century, starting with the Italian Renaissance, to around 1700, with such events as the Glorious Revolution in England and Louis XIV's wars. The course emphasizes the major events, figures, and themes, and their political, social economic and cultural contexts, or early modern Europe. Prerequisite: HIST 103. 3 credits.

**HIST 364 AMERICAS** explores the twentieth-century history of Central and South America and the Caribbean in a multidisciplinary fashion. Crosslisted with LA 364. Fulfills core cross-cultural requirement. 3 credits.

**HIST 380 AMERICAN REPUBLIC, 1788-1860** studies the history of the U.S. from Washington's administration to the Civil War, exploring the political, economic, social, and intellectual growth of the nation. Prerequisite: HIST 103. 3 credits.

**HIST 385 HISTORICAL METHODS** is an introduction to the nature and theory of history through the study of past developments in historical research and writing. Prerequisite: HIST 103. 3 credits.

**HIST 387 FIELD EDUCATION IN HISTORY** offers various opportunities for students for practical experience in the field of History. They may either serve as a student mentor for HIST 103 or they may study and work with the Wisconsin Historical Society or some other agency. Student interns will work under the supervision of a faculty supervisor. Prerequisite: HIST 103. 3-6 credits.

**HIST 392 HOLY ROMAN EMPIRE** offers an overview of the history of the Holy Roman Empire from its establishment in the 10th Century to its dissolution in 1806. The course will focus on the dynastic families (especially the Habsburgs, Hohenzollerns, and Wittelsbachs) who were preeminent in the Empire's history. The course features a trip to Europe to visit several imperial cities. Prerequisite: HIST 103 or consent of the instructor. 3 credits.

**HIST 420 EUROPEAN NATIONAL HISTORY** examines the history of a specific European country (England, France, or Russia), exploring political, social, economic, religious, and other factors. The course will examine one nation; the nation under study will rotate from year to year. Prerequisite: HIST 103. 3 credits.

**HIST 463 TOPICS IN WESTERN HISTORY** provides the students the opportunity to explore a theme, question or topic in Western history in an in-depth fashion in a seminar-style course. Prerequisite: HIST 103. 3 credits.

**HIST 464 TOPICS IN AMERICAN HISTORY** provides the students the opportunity to explore a theme or question in American history in an in-depth fashion in a seminar-style course. Prerequisite: HIST 103. 3 credits.

**HIST 465 SPECIAL TOPICS IN GLOBAL HISTORY** provides the students an opportunity to explore a theme, question, or topic in global history in an in-depth fashion in a seminar-style course. Prerequisite: HIST 103. 3 credits.

**HIST 466 THE AMERICAN IDEA** surveys the intellectual history of the U.S. as it intersected with American society, from the Puritans to the recent conservative movement. Prerequisite: HIST 103. 3 credits.

**HIST 475 THE REFORMATIONS** focuses on the Reformations of 16th-century Europe and the medieval backdrop of these movements. This course emphasizes reading of primary sources in an attempt to understand the theological issues and the positions of the main figures involved. The course also covers specific issues involved with the religious discussions and reforms: education, law, resistance theory, cities in the Reformation, confessionalization, development of religious toleration, role of women. Prerequisite: HIST 103. 3 credits.

**HIST 480 HISTORY INTERNSHIP** provides the student with the opportunity to engage in an advanced research project. The student will work under the supervision of a faculty advisor. Prerequisite: HIST 103 and HIST 385. 3-6 credits.

**HIST 490 SENIOR HISTORY SEMINAR** is a culminating undergraduate experience in which the student will study history by researching, writing, and presenting a piece of original historical work. Prerequisite: HIST 385 or consent of the instructor. 3 credits.

## CRIMINAL JUSTICE AND PUBLIC POLICY

**JPP 101 AMERICAN GOVERNMENT** studies the basic foundations and underlying principles of American national, state, and local government. Crosslisted POLS 201. 3 credits.

**JPP 102 INTRODUCTION TO LAW ENFORCEMENT** studies the history, philosophy and functions of local police department, country sheriff departments, state law enforcement agencies and federal investigatory and intelligence gathering agencies. 3 credits.

**JPP 103 CRIMINOLOGY** studies causations of crime, including sociological, psychological, biophysiological and free will theories. 3 credits. (Crosslisted SOC 151)

**JPP 104 INTRODUCTION TO COURTS** studies the history, philosophy and functions of American courts. 3 credits.

**JPP 110 JUVENILE THEORY** studies the organizations, functions and jurisdiction of juvenile justice agencies along with the theories and causations of juvenile crime and antisocial behavior. 3 credits.

**JPP 206 INTRODUCTION TO CORRECTIONS** studies the history, philosophy and functions of the American correctional system. 3 credits.

**JPP 207 SUBSTANTIVE CRIMINAL LAW** studies definitions of law, definitions of crime, general principles of criminal responsibility, elements of the major crimes, punishments, conditions or circumstances, which may excuse criminal responsibility or mitigate punishment. 3 credits.

**JPP 214 CRIMINAL INVESTIGATION** studies the criminal investigation process including interviewing, crime scene analysis, collection of evidence, and analysis of issues critical to investigations. 3 credits.

**JPP 230 ENVIRONMENTAL LAW** this course is a study of local, state, and federal laws, rules and regulations that are designed to preserve and protect different aspects of our environment. Studies also include a general introduction to the American legal system and an overview of administrative agencies. 3 credits

**JPP 288 TERRORISM** will introduce students to the phenomena of contemporary terrorism and extremism. Emphasis will be placed on extremism as a foundation for terrorist behavior, types of terrorism, and how governments and law enforcement agencies respond to terrorism. 3 Credits.

**JPP 308 PROCEDURAL CRIMINAL LAW** examines the law relating to arrests, searches, and seizures by law enforcement officers as well as rules of evidence and courtroom procedures followed in court by prosecutors and defense attorneys. 3 credits.

**JPP 310 ADMINISTRATION OF JUSTICE** studies the philosophies, history and current techniques of administration of criminal justice agencies. Studies general principles of administration and management. 3 credits.

**JPP 311 CRIMINAL PSYCHOLOGY** studies the psychological theories of crime causation and the impact of the use psychology on the Legal System. Crosslisted PSY 331. 3 credits.

**JPP 312 FORENSIC SCIENCE** studies the scientific aspects of crime detection. 3 credits.

**JPP 313 ORGANIZED CRIME** studies the history, structure and operations of organized crime. 3 credits.

**JPP 375 CRIMINAL JUSTICE INTERNSHIP** provides an opportunity to exercise in a practical manner, the skills, knowledge and responsibilities of a criminal justice practitioner. A detailed journal and research paper will be required. 3-6 credits.

**JPP 399 CRIMINAL JUSTICE INTERNSHIP** provides credit for a preapproved experience in a criminal justice setting. 3-6 credits.

**JPP 400 LAW ENFORCEMENT CERTIFICATION PRACTICUM** offers the JPP junior or senior the opportunity to attend any state certified law enforcement training certification academy. 40 clock hours of training equals one college credit. Limit 21 credits.

**JPP 414 WHITE COLLAR/FINANCIAL CRIMES** studies the history, type and methods of operation of white collar and financial crimes. 3 credits.

**JPP 415 ETHICS IN CRIMINAL JUSTICE** studies the many ethical problems and dilemmas confronted by the criminal justice professional. 3 credits.

**JPP 416 CAREERS IN CRIMINAL JUSTICE** presents the numerous career opportunities in the field of criminal justice. 3 credits.

## LATIN

**LAT 105 LATIN I: BASIC GRAMMAR & VOCABULARY** provides a foundation in elementary Latin grammar and vocabulary. The class provides the framework for a deeper understanding of English, through the study of Latin models. In addition to grammar and vocabulary study in *Wheelock's Latin*, the class also reads Livy's *Early History of Rome* (in English translation) to explore the beginnings of the Roman culture. No previous study, or knowledge of Latin is assumed for this course. 3 credits.

**LAT 106 LATIN II: BASIC GRAMMAR & VOCABULARY** is a continuation of LAT 105, concluding the Wheelock grammar text, and reading further into Livy's cultural history of Rome. The students of LAT 106 will have an increased awareness of the reason for many of the rules governing standard English, as well as a firm foundation in the noble Latin language. Prerequisites: LAT 105 or approval of instructor. 3 credits.

**LAT 205 INTERMEDIATE LATIN I** reviews and builds upon the vocabulary and grammar introduced in LAT 105 and LAT 106. The emphasis shifts to the translation of specific passages from Roman authors. The course introduces a more intensive study of language itself, discrete from a continuing comparative study of Latin's relationship to English. Prerequisites: LAT 106 or approval of instructor. 3 credits.

**LAT 206 INTERMEDIATE LATIN II** is a continuation of LAT 205. The student translates more complex passages, and is introduced to various difficult idioms of the Latin language usually associated with poetic structure. The course compares and contrasts the syntactic and linguistic Latin styles of various Roman authors. Prerequisites: LAT 205 or approval of instructor. 3 credits.

**LAT 305 READING IN LATIN I** is designed for the student who is comfortable with translating Latin poetry and prose into English. Representative authors for this class include Caesar, Catullus, Livy, Sallust, and Tacitus. The student also sees how these authors have influenced the culture of not only their own world, but of the present age. Prerequisites: LAT 206 or approval of instructor. 3 credits.

**LAT 306 READING IN LATIN II** is a continuation of LAT 305, and is designed for the student who is comfortable with translating Latin poetry and prose into English. Representative authors for this class include Caesar, Catullus, Livy, Sallust, and Tacitus. The student also sees how these authors have influenced the culture of not only their own world, but of the present age. Prerequisites: LAT 305 or approval of instructor. 3 credits.

**LAT 345 MAJOR LATIN AUTHORS I** focuses on a single author, whose Latin writings will be explored in depth. Grammar and syntactical styles associated with this writer will be examined, as will the content of the texts, and how they relate to the culture of today. The student and the teacher will together decide on the Roman authors include Jerome, Augustine, Virgil, Petronius, Cicero, Caesar, Horace, Pliny, and Seneca. Prerequisites: LAT 306 or approval of instructor. 3 credits.

**LAT 346 MAJOR LATIN AUTHORS II** also focuses on a single author, whose Latin writings will be explored in depth. The Latin writer for LAT 406 will be different than the one chosen by the student and professor for LAT 405, but will focus on a similar in depth study of this author's use of language and importance to culture. Prerequisites: LAT 306 or approval of instructor. 3 credits.

**LAT 385 SPECIAL TOPICS IN ROMAN CULTURE I** explores a various aspects of the Roman world's impact on the world's culture in the 21st Century. The student will read and explicate various Latin texts in a thematic study. Topics could include Rome's impact on theater, government, literature, or architecture. The topics will be determined by the student and the teacher. Prerequisites: LAT 306 or approval of instructor. 3 credits.

**LAT 386 SPECIAL TOPICS IN ROMAN CULTURE II** also explores various aspects of the Roman world's impact on the world's culture in the 21st Century, but one different from the topic studied in LAT 305. The student will read and explicate various Latin texts in a thematic study. Topics could include Rome's impact on theater, government, literature, or architecture. The topics will be determined by the student and the teacher. Prerequisites: LAT 306 or approval of instructor. 3 credits.

**LAT 405 ADVANCED LATIN GRAMMAR: PROSE** is a course of brief passages by different authors designed to challenge the student's acuity with Latin grammar and syntax. Through these readings, the student will learn more about the language's idiosyncratic nature, and the manner with which different Roman authors would use Latin in unique stylistic ways to great effect. Prerequisites: LAT 306 or approval of instructor. 3 credits.

**LAT 406 ADVANCED LATIN GRAMMAR: POETRY** is also a course made up of poems by different authors designed to challenge the student's acuity with Latin grammar and syntax. However, Roman poetry provides even greater challenges than Latin prose. Through a close examination of various poems, the student will learn more about the language's idiosyncratic nature, and the manner with which different Roman poets would use Latin in unique stylistic ways to great effect. Prerequisites: LAT 306 or approval of instructor. 3 credits.

**LAT 445 INDEPENDENT STUDY IN LATIN I: GRAMMAR** invites the excelling student of Latin to create a course of study which will focus on an advanced exploration of grammar, syntax, and vocabulary. Potential subjects to be approached could be the Roman's use of the locative case or the changing function of the subjunctive mood. The topic will be determined by the student and the teacher. Prerequisites: LAT 306 or approval of instructor. 3 credits.

**LAT 446 INDEPENDENT STUDY IN LATIN II: CULTURE** invites the excelling student of Latin to create a course of study which will focus on an advanced exploration of the Roman culture, based upon the writings of Latin authors. Potential subjects to be approached could be the Roman government's treatment of its people, the role of "bread and circuses" in Rome, and the importance of the aquifer to Rome's world, and today's. The topic will be determined by the student and the teacher. Prerequisites: LAT 306 or approval of instructor. 3 credits.

## LEGAL STUDIES

**LEGL 221 CORPORATE LAW** offers an in-depth survey of the various types of business organizations: sole proprietorships, partnerships, corporations, and limited liability companies. 3 credits.

**LEGL 230 ENVIRONMENTAL LAW** this course is a study of local, state, and federal laws, as well as rules and regulations that are designed to preserve and protect different aspects of our environment. Studies also include a general introduction to the American legal system and an overview of administrative agencies. 3 credits.

**LEGL 331 ADMINISTRATIVE LAW** examines the role of administrative agencies in both the federal and state governments, including their rulemaking, investigative, and judicial powers. 3 credits.

**LEGL 359 CONSTITUTIONAL LAW** analyzes individual rights and responsibilities as developed by the United States Supreme Court in its interpretation of the United States Constitution. Crosslisted POLS 359. 3 credits.

## LIBERAL ARTS

**LA 105 HIGHER EDUCATION: A NEW EXPERIENCE** orients the student into Higher Education through a four phase academic program that develops community, defines needs, explores available resources, builds supportive networking, and develops a desire for Christian growth and academic excellence. 3 credits.

## MARKETING

**MKTG 131 PRINCIPLES OF MARKETING** studies the basics of marketing's roles in society and within the firm. This covers marketing history, the present day practices, and future projections. 3 credits.

**MKTG 223 PUBLIC RELATIONS** surveys the techniques and procedures used to secure publicity in business and politics, as well as manage responses to public issues affecting the publicity-seeking business, person, or organization. Topics covered include: identifying publics, media use, message preparation and dissemination, strategy, and ethical and legal concerns. Crosslisted COMM 223. 3 credits.

**MKTG 304 RETAIL MANAGEMENT** examines the interrelationships of the total retail business activity. Since retailing involves the sale of goods and services to the ultimate consumer for personal, family, or household use, the strategic processes of determining location, buying, stock control, merchandising, accounting, finance, and organization are presented within that context. Prerequisite: MKTG 131. 3 credits.

**MKTG 325 PROMOTION AND ADVERTISING** analyses current advertising procedures. Topics include methods of approach and appeal; basic campaign strategy, copy, visualization and layout; mechanical production; relationship of behavioral sciences to advertising, their use and selection; packaging, brand identification and promotion; and market research, ethics, and consumer protection. Prerequisite: MKTG 131. 3 credits.

**MKTG 345 E-COMMERCE** examines from a marketing perspective the impact, challenges, opportunities, and costs of using the internet and intranets as integral tools in business, including business-to-business and business-to-consumer operations. Topics covered in the course include: benefits and limitations of EC, e-tailing, B2B EC, effect of EC on customer relations, EC and procurement, EC and inventory management, EC payment systems, legal and ethical concerns. The focus of the course is on EC within the discipline of marketing; however, the course will also briefly review web page design and maintenance, web programming principles, and web software agents. 3 credits.

**MKTG 422 MARKETING MANAGEMENT** studies marketing and the related management functions. Prerequisites: MKTG 131, ECON 231, and ECON 222. 3 credits.

**MKTG 426 MARKETING RESEARCH** presents the methods and measurements appropriate for deriving meaning for problems concerned with decisional research. Cases demonstrate the concepts and techniques of decisional research constrained by time and economic considerations. Prerequisites: MKTG 131 and BUS 315. Or instructor approval. 3 credits.

**MKTG 440 INTERNATIONAL MARKETING** studies marketing principles from an international perspective. It views the barriers to and benefits derived therefrom. Prerequisites: ECON 231, FIN 300, and MKTG 131. 3 credits.

## MATHEMATICS

**MATH 119 NUMBER SENSE: TEACHING PRE K-9** is the first course in a two-course sequence that presents an integrated approach to mathematics content and methods appropriate for early childhood, elementary, and middle school pre-service teachers. Emphasis is on constructing knowledge through problem solving, communication, reasoning, connecting mathematical ideas, representation, and generalization. Pre-service teachers will develop their conceptual understanding of "number". Specific number sense topics include numeration systems, number theory, concepts of numbers and operations (whole numbers, integers, fractions, decimals, percents, and ratios), estimation, and proportional reasoning. Preservice teachers will invent strategies to solve computations. 3 credits.

**MATH 120 DATA AND SPACE: TEACHING PRE K-9** is the second course in a two-course sequence that presents an integrated approach to mathematics content and methods appropriate for early childhood, elementary, and middle school pre-service teachers. Emphasis is on constructing knowledge through problem solving, communication, reasoning, connecting mathematical ideas, representation, and generalization. Pre-service teachers will develop their conceptual understanding of "uncertainty" and "geometry". Topics include collecting, representing and analyzing data; concepts of chance; strategies for determining probability of events; functions; properties of 2-D and 3-D figures; transformations, similarity and symmetries; measurement systems; perimeter, area, volume, and surface area; and topology. Prerequisite: MATH 119. 3 credits.

**MATH 121 INTERMEDIATE ALGEBRA** continues the study of algebra combining previously acquired algebraic knowledge with new topics. Content includes: real numbers, exponents, polynomials, linear equations, quadratic equations, systems of equations, functions, graphing, rational expressions, and determinants. Prerequisite: One year of college preparatory algebra in high school or equivalent. 3 credits.

**MATH 125 CONTEMPORARY MATHEMATICS** studies problem solving, structure and properties of the real number systems, number theory, principles of descriptive and inferential statistics, probability and geometry topics. Emphasis is on application to real life situations. Prerequisite: One year of high school college preparatory algebra and one year of geometry or MATH 121. 3 credits.

**MATH 128 COLLEGE ALGEBRA** studies linear, quadratic, polynomial, exponential and logarithmic functions and their graphs, asymptotes and end-behavior of functions, inverse functions, theory of numbers, complex numbers, and applications of these. Prerequisite: Two years of high school college preparatory algebra and one year of geometry or MATH 121. 3 credits.

**MATH 130 BASICS OF STATISTICS** studies the basic methods of sampling and interpreting data probability, the normal distribution, correlation, hypothesis testing and confidence intervals. Prerequisite: Three years of high school college preparatory mathematics or MATH 121. 3 credits. For B.S.N. Completion students only.

**MATH 150 TRIGONOMETRY** provides the essential elements of trigonometry, particularly emphasizing the trigonometric functions. Prerequisite: Two years of high school college preparatory algebra and one year of geometry or MATH 121. 3 credits.

**MATH 176 FINITE MATHEMATICS** studies systems of equations, matrices, systems of inequalities, linear programming, mathematics of finance, combinatorics and elementary probability theory. Applications are chosen from business, life sciences, and social sciences. Prerequisite: Three years of college preparatory high school mathematics or MATH 128. 3 credits.

**MATH 197 APPLIED CALCULUS** studies the basic concepts of differential and integral calculus including limits, continuity, differentiation, and integration of real valued functions. Applications are chosen from business, life sciences, and social sciences. Prerequisite: MATH 128, or 4 years of high school college preparatory mathematics. 3 credits.

**MATH 201 CALCULUS I** studies limits, continuity and differentiation of real valued functions as well as their applications. Integration of functions and their applications are also discussed. Prerequisite: four years high school mathematics or MATH 128 and MATH 150. 4 credits.

**MATH 202 CALCULUS II** studies analytic geometry, integration and differentiation of the trigonometric and logarithmic functions. Techniques of integration, improper integrals, and differential equations are also discussed. Prerequisite: MATH 201. 4 credits.

**MATH 203 CALCULUS III** studies sequences and series, vectors and vector-valued functions, differential equations, partial derivatives, and multiple integration with applications. Prerequisite: MATH 202. 4 credits.

**MATH 205 STATISTICS I** studies the basic methods of sampling and interpreting data, probability, the normal distribution, correlation, hypothesis testing and confidence intervals. Prerequisite: Three years of high school college preparatory mathematics or MATH 121. 3 credits.

**MATH 220 DISCRETE MATHEMATICS** studies the topics of sets, proof, boolean algebra, logic, induction, combinatorics, graph theory, functions, and algorithms. Prerequisite: MATH 201 or MATH 197 or equivalent. 3 credits.

**MATH 305 STATISTICS II** is a course designed to continue the student's background in probability and statistics. Students examine ANOVA, two sample tests, regression and multiple regression, non-parametric statistics, and the Chi-square distribution. Prerequisites: MATH 197 or MATH 201 and MATH 205. 3 credits.

**MATH 321 ABSTRACT ALGEBRA** is a study of sets, mappings, operations, relations, partitions, and the basic algebraic structures; groups, rings, integral domains, fields, and vector spaces. Prerequisite: MATH 202. 3 credits.

**MATH 325 LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS** studies elementary linear algebra, including matrices and determinants, vector spaces, linear transformations, solutions of linear systems, and differential equations including series of equations. Prerequisite: MATH 203. 4 credits.

**MATH 331 GEOMETRY** is a study of postulational development of Euclidean and non-Euclidean geometries. Prerequisite: MATH 202 or departmental approval. 3 credits.

**MATH 441 REAL ANALYSIS** studies differentiation, topology of the real line and metric spaces; theory of the integral, and convergence of series and sequences. Prerequisite: MATH 203. 3 credits.

**MATH 470 COMPUTATIONAL METHODS** provides the essential elements of numerical analysis and computational methods, particularly emphasizing recursive and iterative processes, mathematical modeling, and the analysis of structured algorithms. Prerequisites: MATH 197 (Applied Calculus), MATH 205 (Statistics I), MATH 200 (Discrete Mathematics), and proficiency writing and executing C++ computer programs. 3 credits.

**MATH 490 MATHEMATICS SENIOR SEMINAR** is a culminating undergraduate experience in mathematics. It provides an opportunity for student to work with a specific topic from the spectrum of mathematical knowledge. An individual research project will be required. Prerequisite: Senior standing and at least 24 credits in mathematics courses. 3 credits.

## MEDICAL ASSISTANT PROGRAM

**MA 100 INTERPERSONAL COMMUNICATION** presents an overview of interpersonal communication and analyzes personal communication interactions. Exercises are designed to improve the student's ability to initiate, recognize, and respond to verbal, nonverbal, and written communication. This course will help students to recognize communication barriers and identify techniques for overcoming them. 3 credits.

**MA 110 PSYCHOLOGY** is an introductory course acquainting the student with the procedures, principles, theories and vocabulary of psychology as a science. It includes basic principles, developmental stages of the life cycle, and mental health. Also covered are the effects of heredity, environment, and culture on development. 3 credits.

**MA 130 CARDIOPULMONARY RESUSCITATION** provides instruction in the American Heart Association training for Healthcare Providers. Covers rescue breathing, cardiopulmonary resuscitation, use of an AED, and how to care for choking victims. Techniques for caring for infants, children and adults are covered. 1 credit.

**MA 140 MEDICAL LAW AND ETHICS** presents legal guidelines and requirements for health care, personal attributes, job readiness, workplace dynamics, and allied health professions and credentialing. It identifies the roles and functions of personnel within the medical office practice setting. Medical ethics and bioethics are discussed as well as risk management issues as they relate to the practice of medical assisting. Students will learn to identify and respond to issues of confidentiality, perform within legal and ethical boundaries, establish and maintain the medical record, and document appropriately. 3 credits.

**MA 150 PHARMACOLOGY** provides students with an introduction to pharmacology. It covers all categories of drugs, their generic equivalents, and their actions, as well as the body systems affected by them. The course includes dosage calculation, adverse reactions, contraindications, precautions, interactions, administration, and patient management. 2 credits.

**MA 210 ADMINISTRATIVE PROCEDURES I** introduces basic medical office functions. The student will learn how to utilize computer software for scheduling, maintaining records, and preparing professional communications. It includes setting up a medical record, telephone techniques, medical records management, and written communication. 2 credits.

**MA 220 ADMINISTRATIVE PROCEDURES II** continues information related to the medical office. This course covers ICD-9 and CPT coding, insurance plan information, and managing practice finances. It includes job interviewing techniques and resume preparation. Prerequisite: Administrative Procedures I 2 credits.

**MA 230 ANATOMY AND PHYSIOLOGY I** teaches the basic structure of medical terms and how to build words from word parts. This course also includes applications of medical terminology, pronunciation and definitions. It covers the anatomy and physiology of body systems including the digestive, musculoskeletal, urinary and male and female reproductive systems. It presents common pathology and diseases of each body system along with diagnostic and treatment modalities. 3 credits.

**MA 240 ANATOMY AND PHYSIOLOGY II** covers body systems including respiratory, cardiovascular, blood and lymphatic, integumentary, endocrine and sense organs. It integrates the medical terms with each body system. It also includes pathology and diseases of each system along with diagnostic and treatment modalities. Prerequisite: Anatomy and Physiology I. 3 credits.

**MA 250 LABORATORY PROCEDURES I** covers the collection and preparation of laboratory specimens. It includes information about the laboratory setting, including CLIA. Routine laboratory testing in the areas of hematology and blood chemistry will be performed on specimens collected in class by the venipuncture or skin puncture methods. 2 credits.

**MA 260 LABORATORY PROCEDURES II.** students will learn the importance of quality control, and proper collection techniques. Male and female reproductive health is covered, along with colon procedures. Routine laboratory testing in the areas of urinalysis, pregnancy testing, fecal occult blood, microbiology, and serology will be performed on collected specimens. Prerequisite: Laboratory Procedures I. 2 credits.

**MA 270 CLINICAL PROCEDURES I** presents information about medical asepsis and infection control, sterilizing and sanitizing equipment, and obtaining and recording vital signs. Students learn proper patient preparation for, and how to assist the physician with, different types of examinations. There is also a section that deals with cardiopulmonary procedures and electrocardiography, as well as information on radiology and diagnostic imaging. Students demonstrate their ability to perform skills through competency testing. Theory is presented in conjunction with planned student activities. 2 credits.

**MA 280 CLINICAL PROCEDURES II** instructs students in administration of medication, assisting with minor office surgery, performing eye and ear assessments, the use of physical agents to promote tissue healing, and emergency medical procedures. Students demonstrate their ability to perform skills through competency testing. Theory is provided in conjunction with planned student activities. Prerequisite: Clinical Procedures I. 2 credits.

**MA 300 MEDICAL ASSISTANT PRACTICUM** provides the student with an opportunity to demonstrate application of learned concepts, principles, and procedures required to assist the physician in daily office activities within a supervised ambulatory health care setting. Each student must complete at least 200 hours. 3 credits.

**REL 100 THE BIBLE AS LITERATURE** is an overview of the Bible intended to acquaint the student with its background, content and messages. This introductory course satisfies the core curriculum requirement for Bible content for students who are not in a church work program. 3 credits.

## MUSIC

**MUS 100 PIANO CLASS** provides group instruction emphasizing the development of basic keyboard skills and instruction in reading both G and F clef notation. No prerequisite. 3 credits.

**MUS 171 CREATIVE ARTS - MUSIC** provides students with an opportunity to experience music in its' many forms by learning the elements of music and studying how these elements are used in various styles, as well as by providing musical experiences such as singing, playing and dancing. 3 credits.

**MUS 180 CHAPEL RINGERS** is comprised of 11-13 handbell ringers which performs primarily for on-campus chapel services and concerts. Membership by audition only, preferably for the entire academic year. 1 credit.

**MUS 181 WIND ENSEMBLE** is the premiere university instrumental ensemble which performs concerts throughout the academic year. The ensemble maintains a repertoire of both secular and sacred music. The ensemble performs in both worship and non-worship settings. Participation in annual winter tour is required. Membership in audition only. 1 credit.

**MUS 182 CONCORDIA CHORALE** is a mixed voice ensemble of up to 55 voices which sings in several major on-campus settings and for weekly chapel services. Open to all students, faculty, and staff. Membership is by audition only. 1 credit.

**MUS 184 KAMMERCHOR** is a highly select mixed voice ensemble which performs at a variety of campus and off-campus activities and takes an annual tour. Preference is given to sophomores through seniors, or to those who demonstrate solid choral background. Ordinary participation is expected for the entire academic year. Membership is by audition only. 1 credit.

**MUS 185 THE ALLELUIA RINGERS** is a select handbell choir of 11-12 ringers, which performs in worship and concert both on and off campus. Membership is by audition only, preferably for the entire academic year. 1 credit.

**MUS 187 FALCON PEP BAND** is a small ensemble playing a repertoire of high-energy, high-volume popular music performed at designated home football and basketball games. 1 credit.



**MUS 188 JAZZ ENSEMBLE** studies and performs the repertoire of the various jazz idioms including swing, be-bop, blues, big-band and contemporary fusion. The ensemble seeks to provide a comprehensive study of the performance repertoire for both the players and its audiences. 1 credit.

**MUS 190 STRING ENSEMBLE/CHAMBER ORCHESTRA** a dual format ensemble which covers the historical span of string repertoire from Baroque to 20th Century. Fall semester concentrates on string orchestra while spring semester adds requisite wind, brass and percussion. 1 credit.

**MUS 240 MUSIC THEORY I** enables students to explore musical concepts through analysis, sight-singing and aural training, and part-writing. Harmonic studies include primary chords in root positions and cadential preparations. No prerequisite. 3 credits.

**MUS 241 MUSIC THEORY II** is a continuation of Music Theory I with special emphasis on primary chords in inversion, seventh chords, secondary dominants and chromatic materials. Prerequisite: MUS 240 or consent of instructor. 3 credits.

**MUS 242 MUSIC THEORY III** continues Music Theory II with special emphasis on secondary functions, modulation, altered chords, and chromatic harmony. Music Theory III also involves work with the music department's Macintosh computer lab. Prerequisite: MUS 241 or consent of instructor. 3 credits.

**MUS 243 MUSIC THEORY IV** is a continuation of Music Theory III with special emphasis on extended harmonies, formal analysis, and Twentieth-century techniques. Also involves work with music department Macintosh computer lab. Prerequisite: MUS 242. 3 credits.

**MUS 250 BEGINNING CONDUCTING** studies the fundamental and working knowledge of rudimentary conducting principles including baton techniques, beat patterns, analytical skills, non-verbal expression and fundamental gestures. This course will also introduce some of the essential administrative duties germane to the ensemble director. Prerequisite: MUS 240. 3 credits.

**MUS 271 MUSIC HISTORY I** surveys the history of music from the Medieval through the Baroque periods. Introduces and develops the musical forms pertinent to the respective periods, as well as their parallel correlation to the artistic, literary, architectural and socio-economic aspects of general historical development. Encourages, develops and reinforces analytical and research skills. Prerequisite: MUS 241 or consent of instructor. 3 credits.

**MUS 272 MUSIC HISTORY II** surveys the history of music from the Classical through the Twentieth Century Periods. Introduces and develops the musical forms pertinent to the respective periods, as well as their parallel correlation to the artistic, literary, architectural and socio-economic aspects of general historical development. Encourages, develops and reinforces analytical and research skills. Prerequisite: MUS 271. 3 credits.

**MUS 315 TECHNIQUES OF TEACHING VOICE** studies laryngeal structure and function, as well as the structure and mechanics of breath apparatus as applied to the singing voice. Allows the student to gain practical experience in applying concepts learned in both individual and group settings. 2 credits.

**MUS 351 ADVANCED CONDUCTING** further develops beginning conducting skills with special emphasis on effective rehearsal techniques. The student has the opportunity to gain some practical experience in both instrumental and choral conducting. Prerequisite: MUS 250. 3 credits.

**MUS 356 TECHNIQUES OF TEACHING BRASS** includes instruction in the physiology of the brass embouchure and its development. Covers the basic techniques for teaching tone and technique on trumpet, french horn, euphonium, trombone and tuba from elementary to high school levels. Includes some literature reference and application of solo and ensemble performance. 2 credits.

**MUS 357 TECHNIQUES OF TEACHING WOODWINDS** includes instruction in the physiology of the woodwind embouchure and its development. Covers the basic technique for teaching tone and technique on flute, oboe, clarinet and saxophone. 2 credits.

**MUS 358 TECHNIQUES OF TEACHING PERCUSSION** includes instruction in the physiology of the percussion grip and its development. Covers the basic techniques for teaching technique and rudiments on snare drum, bass drum, timpani, auxiliary and mallet percussion. Includes some literature references and application of solo and ensemble performance. 2 credits.

**MUS 359 TECHNIQUES OF TEACHING STRINGS** includes instruction in basic string technique and its development. Covers the basic technique on violin, viola, cello, double bass. Includes some literature references and application of solo and ensemble performance. 2 credits.

**MUS 371 MUSIC OF THE BAROQUE** surveys music of the period 1600 to 1750 with particular emphasis on the great Lutheran musical heritage of this period. Prerequisite: MUS 271 and MUS 272 or consent of instructor. 3 credits.

**MUS 372 MUSIC OF THE CLASSIC PERIOD** surveys music of the last 18th century to early 19th century with special emphasis on the principles of form and balance which form the basis of much of the music of the Classical period. Prerequisite: MUS 271 and 272 or consent of instructor. 3 credits.

**MUS 373 MUSIC IN THE TWENTIETH CENTURY** examines compositional styles and schools of 20th Century composers as they have struggled with the need for redirection of musical thought. This course will involve the study of early 20th Century composers (Schoenberg, Stravinsky) to the present (Boulez, Stockhausen, Cage) and the musical avant-garde of these periods. Prerequisite: MUS 271 and MUS 272 or consent of instructor. 3 credits.

**MUS 376 MUSIC OF THE ROMANTIC PERIOD** surveys the music of Beethoven through Richard Strauss with special emphasis on the artistic principles which form the basis of much of the music of the Romantic period. Prerequisite: MUS 271 and 272 or consent of instructor. 3 credits.

**MUS 422 ORGAN LITERATURE** surveys a broad spectrum of organ literature with emphasis on music appropriate for worship settings. Prerequisite: Consent of instructor. 3 credits.

**MUS 445 COMPOSING AND ARRANGING** explores the role of the church musician as composer and arranger. Assignments related to the specific needs of the parish: orchestration, hymn reharmonizations, arranging hymnody and composition of original material. Prerequisite: MUS 242 or consent of instructor. 3 credits.

**MUS 461 MUSIC IN WORSHIP** explores the principles and practice of liturgical music, especially as it finds current expression in Lutheran worship. The study includes historical background but stresses practical contemporary issues. 3 credits.

**MUS 465 SURVEY OF CHRISTIAN HYMNODY** examines the lyrics and tunes of hymns, the writers of hymns, and the cultural influences on hymn writing from the early Christian church through the present. Particular emphasis is placed on the literary and musical qualities characteristic of this important genre. 3 credits.

**MUS 485 HANDBELL METHODS AND MATERIALS** provides basic techniques of handbell ringing; experience in performing handbell music, and planning and organizing a handbell choir. 3 credits.

**MUS 491 PARISH MUSIC PRACTICUM** allows the student to gain first-hand experience in parish musical work. This course is a requirement for the Director of Parish Music major. Prerequisite: successful passing of keyboard proficiency exam. 1 or more credits.

**MUS 499 RECITAL** provides a culminating experience in applied music. This course is taken in place of the student's applied music courses in the semester during which the recital is given. Prerequisite: Departmental approval. 1 or 2 credits.

## APPLIED MUSIC

Private study is offered in voice, piano, organ and most wind and string instruments. All instruction is obtained through a "permit to register" card from the Department of Music. Beginning level voice and piano students may be advised to begin with Class Voice and Class Piano. Prospective organ students need a solid keyboard background before beginning organ instruction. There is an addition per credit fee for applied music (not for class voice and piano).

<b>MUS 201, MUS 301</b>	Applied Piano	1-2 cr./sem.	<b>MUS 233, MUS 333</b>	Applied Percussion	1-2 cr./sem.
<b>MUS 211, MUS 311</b>	Applied Voice	1-2 cr./sem.	<b>MUS 234, MUS 334</b>	Applied String	1-2 cr./sem.
<b>MUS 221, MUS 321</b>	Applied Organ	1-2 cr./sem.	<b>MUS 235, MUS 335</b>	Applied Guitar	1-2 cr./sem.
<b>MUS 232, MUS 332</b>	Applied Brass	1-2 cr./sem.	<b>MUS 236, MUS 336</b>	Applied Woodwinds	1-2 cr./sem.

Students may transfer applied instruction from another recognized **educational institution** to Concordia University subject to **departmental** review.



## NURSING

### \* B.S.N. Completion Program Only

**NURS 100 INTRODUCTION TO PROFESSIONAL NURSING** describes basic principles of nursing, and addresses issues such as entry into practice, nursing employment opportunities and nursing roles. Roles of the professional nurse and nurse theories will be examined. Beginning nursing student. 1 credit.

**NURS 101 PROFESSIONAL CORE FOUNDATIONS** identifies the philosophical basis, conceptual framework and responsibilities of the professional nurse while assisting students to formalize their decision to study professional nursing. 5 credits.

**NURS 106 (HUM 106) NURSING AND YOU** an approach to Holistic Nursing considers the relationship between the successful nurse and a study of the Humanities, particularly as it relates to the human condition. The nurse who understands the essence of what it is that motivates the crown of God's creation, humankind, will better be able to use a holistic approach to nursing care and will understand self and patient better. The student will survey approaches to the study of literature, music and art, and will continue to develop critical and analytical skills that will enhance nursing care and, at the same time, lead to a richer personal life. Course meets Humanities requirement. 4 weeks - 3 credits.

**NURS 202 ALTERATIONS IN WELLNESS I** explores the health needs of the older client. Primary, secondary, and tertiary preventions are discussed as they relate to retaining, attaining, and maintaining the older client's line of defense. Taken concurrently with N222. 3 credits.

**NURS 212 ALTERATIONS IN WELLNESS I PRACTICUM** provides guided clinical experience correlated with theoretical content of NURS 101, NURS 213, NURS 222, NURS 232, and NURS 265. 2 credits.

**NURS 213 PROFESSIONAL CORE FOUNDATION LAB** focuses on professional psychomotor nursing skills that complements didactic content of NURS 202. Provides reinforcement of psychomotor experiences in the clinical setting. Prerequisites: NURS 222, taken concurrently with NURS 212 and NURS 265. 1 credit.

**NURS 232 WELLNESS ASSESSMENT (also BSN program)** identifies nursing's role in assessing deviations from wellness and the way in which individuals maintain lines of defense. Nursing laboratory work required. Prerequisites: BIO 270 and BIO 272. 3 credits.

**NURS 265 PHARMACOLOGY** is an online course covering the basic concepts of pharmacology, drug therapies for disease states as they relate to retaining, attaining, or maintaining a client's line of defense and relevant nursing implications. 2.5 credits.

**\*NURS 301 NURSING AND THE NEUMAN MODEL** demonstrates the incorporation of Betty Neuman's conceptual framework within the nursing process. 3 credits.

**NURS 302 ALTERATIONS IN WELLNESS II** focuses on the lines of defense and nursing preventions when assisting adults requiring medical/surgical interventions. Prerequisites: Junior standing, NURS 202, 222, and NURS 265. Taken concurrently with NUR 312. 5 credits.

**NURS 305 LEGAL/ETHICAL ASPECTS OF PROFESSIONAL NURSING PRACTICE** assists the nursing student to understand the legal and ethical dimensions of practice for a Christian professional nurse. Prerequisite: Senior standing in nursing. 3 credits.

**\*NURS 305 LEGAL/ETHICAL ASPECTS OF NURSING** is a course in which the student will identify various ethical theories and define one's own value system. This course will then explore who the defined theoretical frameworks and value system support the nurse's legal responsibilities. The ethical/legal issues discussed will relate to the practice of nursing. 3 credits.

**NURS 312 ALTERATIONS IN WELLNESS I PRACTICUM II** provides guided clinical experience with adult clients in a medical surgical setting. Prerequisites: Junior standing and concurrent enrollment in NURS 302. 4 credits.

**NURS 313 ALTERATIONS IN WELLNESS II LAB** focuses on professional psychomotor nursing skills that complements didactic content of NURS 302. Provides reinforcement of psychomotor experiences in the clinical setting. Prerequisites: NURS 202, NURS 213, NURS 222, NURS 265, taken concurrently with NURS 302, NURS 312. 1 credit.

**NURS 320 NURSING OF DEVELOPING FAMILIES** introduces students to the stressors encountered and nursing preventions required to retain, attain, and maintain system stability with families. Senior standing taken concurrently with Nursing 321. Prerequisites: NURS 302 and 312. 2.5 credits.

**NURS 321 PEDIATRIC PRACTICUM** provides guided clinical experience with childbearing and childrearing families in a variety of settings and agencies. Taken concurrently with NURS 320. 1 credit.

**NURS 322 OB: NEONATES AND FAMILIES** pediatrics provides guided clinical experience with childrearing families in a variety of settings and agencies. Taken concurrently with NURS 323. 1 credit.

**NURS 323 NURSING OF DEVELOPING FAMILIES (OB)** introduces students to the stressors encountered and nursing preventions required to retain, attain, and maintain system stability with childbearing families. Senior standing taken concurrently with NURS 322. Prerequisites: NURS 302 and 312. 2.5 credits.

**\*NURS 331 HISTORY OF NURSING** is a course which introduces students to the concept that nursing today was formed by its history. Students will explore the development of the nursing profession, the impact of social and scientific changes on nursing, and nursing's impact on society. 3 credits.

**NURS 335 NURSING RESEARCH (also B.S.N. Completion Program)** introduces students to basic research principles and application of these principles to nursing practice. Prerequisites: Junior standing and concurrent enrollment in nursing practicum. 3 credits.

**NURS 340 COMMUNITY WELLNESS** studies nursing responsibilities in assisting individuals, families, and groups to meet stressors and retain, attain, and maintain system stability within the community setting. 3 credits. Taken concurrently with NURS 341.

**NURS 341 COMMUNITY WELLNESS PRACTICUM** provides the student with an opportunity to integrate previous knowledge with community health nursing and to apply this within a nursing process framework to individuals and aggregates in various community site settings. Taken concurrently with N340, N402, and N412. 1 credit.

**\*NURS 342 COMMUNITY WELLNESS FOR RN's** is an in-depth study of nursing responsibilities in assisting individuals, families and groups to meet stressors and retain, attain and maintain system stability with a community setting. Advanced clinical practice with clients in the community in a variety of settings and agencies is provided. 6 credits.

**\*NURS 360 CULTURAL DIVERSITY IN NURSING** introduces the student to health care among differing cultural groups. Prerequisites: Junior or Senior standing. 3 credits.

**NURS 363 THERAPEUTIC NUTRITION** is a lecture course designed to initially assist the nursing student in building a sound foundation in scientific nutritional concepts. The course continues by applying these concepts in the nutritional care of specific clients in the promotion of health and treatment of disease. Prerequisites: CHEM 205; BIO 270, 271, 272, 273; BIO 249 or consent of instructor; Overall GPA of 2.75. 2 credits.

**NURS 370 PARISH NURSING** introduces the student to the concept and practice of parish nursing within the church/community setting. Included are the four roles of the parish nurse: health educator, health counselor, liaison to the community and trainer of volunteers. 3 credits.

**NURS 390 INTRODUCTION TO BASIC EKG** introduces the nursing student to basic rhythms of the heart. Junior level elective. 1 credit.

**\*NURS 395 NEUMAN IN THE SPIRITUAL VARIABLE** introduces students to the stressors encountered in the spiritual dimension and applies healthy interventions and preventions in various settings. This course is open to Juniors and Seniors and B.S.N. Completion students. Elective. 3 credits.

**NURS 402 PSYCHOLOGICAL WELLNESS** focus is on the principals and practice of nursing in the mental health setting. Theory and treatment of special populations and people with both chronic and acute psychiatric needs. 3 credits.

**NURS 412 PSYCHOLOGICAL WELLNESS PRACTICUM** provides guided clinical practice within both acute and chronic mental health settings. Taken concurrently with NURS 402. 1 credit.

**NURS 420 CRITICAL CARE NURSING** provides both classroom and guided clinical experience with adult clients in a critical care setting. It continues to build on previous nursing courses and will focus on stressors, lines of defense, nursing diagnosis development, secondary nursing preventions, and scientific rationale in giving nursing care to critically ill clients. (offered occasionally) 3 credits.

**NURS 430 ALTERATIONS IN WELLNESS III** focuses on lines of defense and nursing preventions used in assisting clients and families experiencing major and/or complex alterations in wellness. Prerequisites: Junior standing, NURS 302, 312, 313 and taken concurrently with NURS 431. 5 credits.

**NURS 431 ALTERATIONS IN WELLNESS III PRACTICUM** provides guided clinical practice correlated with theoretical content of Alterations in Wellness III. Prerequisites: Junior standing, NURS 302, 312, 313 and taken concurrently with NURS 430. 2.5 credits.

**NURS 440 COMPLEX NURSING SYSTEMS** explores the principles of effective leadership/management skills in managing the health needs of individuals and groups. Prerequisites: Senior standing. NURS 430 and 431. Taken concurrently with NURS 441. 2 credits.

**NURS 441 COMPLEX NURSING SYSTEMS PRACTICUM** afford students the opportunity to apply the principles of effective leadership/management skills in the clinical setting. Prerequisites: Senior standing. Taken concurrently with N440, N430, and N431. 2.5 credits.

**\*NURS 442 COMPLEX NURSING SYSTEM FOR RN'S** explores the principles of effective leadership/management skills in managing the health needs of individuals, groups and peers within the role of the professional nurse. 5 credits.

**NURS 451 GLOBAL EDUCATION** allows the students to study and experience the history, culture and health beliefs of Costa Rica. 3 credits.

**NURS 452 GLOBAL EDUCATION** allows the students to study and experience the history, culture and health beliefs of Belize. 3 credits.

**NURS 491 SEMINAR IN CONTEMPORARY NURSING ISSUES** is a faculty advised seminar in which the student presents an in-depth, independent study of current topics, forces and/or issues affecting contemporary nursing practice. Prerequisite NURS 335. 1 credit.

**\*NURS 492 SEMINAR IN CONTEMPORARY NURSING ISSUES** is a faculty advised seminar in which the student presents an in-depth, independent study of current topics, forces and/or issues affecting contemporary nursing practice. The student will also be exposed to communication skills in public speaking. 1 or 4 credits, offered once a year. This is the last module the BSN Completion student takes prior to graduation.

**NURS 493 NCLEX REVIEW** guides the student in preparation for National Licensure Exam. Taken spring of Senior Year. Elective. 1 credit.

\*B.S.N. Completion Program only

## PHILOSOPHY

**PHIL 201 INTRODUCTION TO PHILOSOPHY** familiarizes the student with the major subject areas of philosophy. Using historical and contemporary sources, the course examines fundamental problems and theories in Epistemology, Ethics and Metaphysics. For philosophy minors this is a prerequisite for all philosophy electives. 3 credits.

**PHIL 211 ELEMENTARY LOGIC** is a grounding in both informal and formal logic. The course studies the nature and types of argument and methods for distinguishing good and bad reasoning. Formal methods include the use of truth-tables and natural deduction. 3 credits.

**PHIL 240 ENVIRONMENTAL ETHICS** is a grounding in the theory and practice of environmental ethics. The course studies both secular and religious principles that impact environmental care, and examines the foundations and consequence of anthropocentric, biocentric, and ecocentric approaches and "deep ecology," in dialogue with a developed biblical concept of stewardship. 3 credits.

**PHIL 250 MORAL PHILOSOPHY** is a course of study which examines the central ethical systems of philosophy in dialogue with Christian presuppositions and with a Lutheran understanding of Law and Gospel. Participants will study classical and contemporary sources of ethical foundations in the Western tradition. Analytical methods of philosophical inquiry are explained and applied. Case studies provide occasions for fostering in-depth class discussions and application of ethical theories, principles, and tools. 3 credits.

**PHIL 309 HISTORY AND PHILOSOPHY OF SCIENCE** studies the development of science and scientific methodology from classical antiquity to the contemporary scene. There is a special emphasis on the development of astronomy and the changing fortunes of design as a scientific category. Students learn how theological categories provide the metaphysical, epistemological and ethical foundation for the rise of modern science, and critically evaluate the contrasting, contemporary attitude of methodological naturalism. Prerequisite: PHIL 201. 3 credits.

**PHIL 311 THE CHRISTIAN MIND** is a course in critical and philosophical thinking from a distinctively Christian perspective. The focus is what it means to love God with all our mind, developing a Biblical, Christian worldview that has something to say about secular as well as sacred topics. The course shows how the Christian mind transformed civilization and how it continues to contrast with various secular perspectives such as materialism, pragmatism and postmodernism. 3 credits.

**PHIL 325 CHRISTIAN APOLOGETICS** examines the historical, scientific and philosophical case for Christianity. The course explores the nature and purpose of apologetics, modernist and postmodernist approaches and examines both logical arguments and empirical evidences for the truth claims of Christianity. Prerequisite: PHIL 201 or consent of instructor. 3 credits.

**PHIL 333 SPECIAL TOPICS IN PHILOSOPHY** is an opportunity to study a particular thinker or philosophy in depth. Although this course has most often been used to study the life and works of C. S. Lewis, other versions, such as a focused study of the philosophy of Kierkegaard or Kant, are also possible. The class can be taken more than once for credit, provided the content is different. 3 credits.

**PHIL 334 CHRIST AND CULTURE** examines the interaction between the Christian and the surrounding culture in both Western and non-Western settings. The classic typology of H. Richard Niebuhr is presented and critically evaluated. The implications of the doctrines of vocation and of the two kingdoms are explored. Public theology is defined, and students learn to appreciate the distinctive approaches to public theology within different denominations. A wide range of contemporary issues facing the Christian is studied. Throughout the course, there is particular emphasis of the merits of the Lutheran "paradox" model for interaction with culture, along with due consideration of the strengths and weaknesses of other models. 3 credits.

**PHIL 350 BIOETHICAL DILEMMAS IN CONTEMPORARY SOCIETY** will study basic concepts concerning in vitro fertilization, genetic testing and therapy, stem cell research, cloning, organ transplantation, end-of-life care, human subject research, and access to health care. Students will examine how contemporary philosophers address bioethical issues. They will be enabled to articulate their perspectives and make informed decisions compatible with the Christian faith. This course is particularly suited for those in medical, biology, pre-seminary, lay ministry, teaching, and philosophy programs. Prerequisites include PHIL 201, PHIL 250, or a familiarity with the basic principles of ethics or medical ethics. 3 credits

**PHIL 371 PHILOSOPHY AND FILM** is a systematic study of the means by which the medium of film communicates philosophical ideas and theories. Students study the major enduring problems of philosophy and how they are portrayed, developed, and evaluated by important films spanning many movie genres from popular and accessible action movies to the challenging works of avant-garde directors. This course may be taken as the core class in Philosophical Foundations, and is cross-listed as COMM 371. 3 credits.

**PHIL 372 THE LORD OF THE RINGS AND PHILOSOPHY** delves into the profound philosophical themes both surrounding and suffusing Tolkien's magnum opus. The course includes a study of Tolkien's professed methodology and refers to the background of Middle Earth painted in other works, but mainly focuses on how Tolkien develops and argues for and against specific philosophical theses within the text of *The Lord of the Rings*. Prerequisites: REL 100 *The Bible* and REL 110 *Christian Faith* or their equivalents. 3 credits. Crosslisted as COM 372.

**PHIL 381 AESTHETICS** Prerequisite: ART 285, 286. Crosslisted as ART 381.

**PHYSICAL THERAPY SEE GRADUATE CATALOG FOR COURSE DESCRIPTIONS****PHYSICS**

**PHYS 107 ASTRONOMY** is an introductory astronomy course for students with some background in high school mathematics and high school physics. The physical nature of the universe, solar system, stars, nebulae, and galaxies are investigated. One lab per week. Prerequisite: MATH 121. 3 credits.

**PHYS 121 ELEMENTARY PHYSICS** is a one-semester survey of physics including classical mechanics, heat and thermodynamics, wave motion and sound, and electricity. Involves the use of algebra and includes mathematical problem solving. One lab per week. Prerequisite: MATH 121. 4 credits.

**PHYS 151 GENERAL PHYSICS I** is a survey of physics including classical mechanics, heat and thermodynamics, mechanical waves, and sound. Involves the use of algebra and trigonometry, and includes numerical problem solving. One lab per week. Prerequisite: MATH 128. 4 credits.

**PHYS 152 GENERAL PHYSICS II** is a continuation of PHYSICS 151 and includes classical electricity and magnetism, light and optics, and an introduction to atomic, particle, and nuclear physics. One lab per week. Prerequisite: PHYS 151. 4 credits.

**PHYS 240 MODERN PHYSICS** is a calculus based survey of the physics of the twentieth century including the special theory of relativity, models of the atom, quantum mechanics, the physics of nuclei, and a survey of elementary particles. Prerequisites: MATH 201, MATH 202. 4 credits.

**POLITICAL SCIENCE**

**POLS 101 INTRODUCTION TO POLITICAL SCIENCE** is an analysis of the structure and operation of the American political system, along with a comparison of the characteristics of liberal democracy with those of such competing ideologies as nationalism, communism, socialism, anarchism, and fascism. 3 credits.

**POLS 201 AMERICAN GOVERNMENT** studies the basic foundations and underlying principles of American national, state, and local government. Crosslisted JPP 101. 3 credits.

**POLS 221 ENVIRONMENTAL POLICY** This course provides an introduction to the study of environmental politics and policy in the United States. The course addresses how environmental policy is made at the local, state, and national level in policy issues such as air and water pollution, waste management, and energy. Through case studies, students learn to appreciate the scientific, political, and human dimensions of environmental policies. 3 credits.

**POLS 255 THE PRESIDENCY** studies both the person and the office of the president historically and contemporarily. Emphasis will be placed on the religion that American presidents bring to and practice in office.

**POLS 285 AMERICAN POLITICS AND HEALTH CARE POLICY** introduces the students to the policy-making process in the United States by focusing on the three branches of government - legislative, executive, and judicial - as well as the context of environment in which political decisions about health care policy are made. Activities will help students appreciate how the American political system has evolved, understand its everyday impact on the lives of students, and evaluate recommended changes to the system, particularly in the health care arena. 3 credits.

**POLS 300 COMPARATIVE POLITICS** introduces students to central concepts of comparative politics, including power, state formation, political economy, political culture, nationalism and identity, democratization, and globalization. Prerequisites for Political Science majors and minors: POLS 101 and POLS 201. 3 credits.

**POLS 310 INTERNATIONAL RELATIONS** introduces students to the fundamentals of international politics and international organization, particularly the United Nations and its specialized agencies. Prerequisites for Political Science majors and minors: POLS 101 and POLS 201. 3 credits.

**POLS 359 CONSTITUTIONAL LAW** is the analysis of individual rights and responsibilities as developed by the United States Supreme Court in its interpretation of the United States Constitution. Crosslisted LEGL 359. 3 credits.

**POLS 410 THE CHRISTIAN AND POLITICS** examines the relationship between religion and politics in the United States and how Christians may respond to and be a part of the public square. Prerequisites for Political Science minors: POLS 101 and POLS 201. 3 credits.

**POLS 491 SPECIAL TOPICS IN POLITICS** allows in-depth study of an area of politics and government of mutual interest to staff and students. This course may be taken more than once as long as there is substantially different content in each course. Prerequisites for Political Science minors: POLS 101 and POLS 201. 3 credits.

**PSYCHOLOGY**

**PSY 101 GENERAL PSYCHOLOGY** is an introductory survey course acquainting the student with the procedures, principles, theories and vocabulary of psychology as a science. 3 credits.

**PSY 201 INTERPERSONAL COMMUNICATION** is an interdisciplinary study designed to improve the student's understanding of and skills in intra- and interpersonal communication. Emphasis will be placed on contributions from the fields of psychology, sociology and general semantics. Crosslisted COMM 201. Prerequisite: PSY 101. 3 credits.

**PSY 205 THEORIES OF LEARNING** presents theories of development, learning, and motivation and introduces evaluation, individual differences, and classroom management. Consideration is given to basic theories and their practical implementation in the classroom. Prerequisite: PSY 101. 3 credits.

**PSY 221 CHILD DEVELOPMENT** studies the developmental stages of becoming humans from birth to pre-adolescence involving primarily those psychological and psychosocial changes which are a concern for psychologist and educators. Special attention is given to the birth process, parenting, individual differences, emotional and intellectual development, as well as ethnic background, religious training and socio-economic affiliation. Prerequisite: PSY 101. 3 credits.

**PSY 222 ADOLESCENT DEVELOPMENT** studies the interaction of maturational, social, and self-reactive factors in human development during adolescence. Examines problems of personal, familial, social, and occupational adjustment. Prerequisite: PSY 101. 3 credits.

**PSY 223 ADULT DEVELOPMENT** examines the developmental tasks and stages of human beings from their entrance into early adulthood through death. Prerequisite: PSY 101. 3 credits.

**PSY 230 LIFESPAN DEVELOPMENT** surveys the developmental stages and the psychological growth of humans from conception to death. Not to be taken for credit if PSY 221, 222, and/or 223 are required. Prerequisite: PSY 101 or equivalent. No credit will be issued if MORE than one development course PSY 221, 222, or 223 is taken along with Life-Span. 3 credits.

**PSY 245 EXPERIMENTAL PSYCHOLOGY** provides practice in a variety of research methods and includes design of experiments, techniques for data collection, control of experimental events, and data analysis. Individual laboratory projects and preparation of scientific reports are required. Prerequisites: MATH 205 and PSY 101, computer literacy. This course needs to be taken before enrollment in PSY 410. 3 credits.

**PSY 310 THEORIES OF PERSONALITY** is a seminar focusing on various concepts of personality as addressed by theorists within the disciplines of psychology and sociology. Prerequisite: PSY 101 and PSY 221 or 222 or 223 or 230. 3 credits.

**PSY 312 MARRIAGE AND FAMILY RELATIONS** considers the major facets of marriage and family life within American culture. It emphasizes such aspects of marriage and the family as personality development, role and status sets, communication patterns, adjustment and conflict. Crosslisted SOC 312. Prerequisites: PSY 101 or SOC 101. 3 credits.

**PSY 315 SOCIAL PSYCHOLOGY** introduces basic concepts of social psychology, leadership as an aspect of social power, small group behavior, communication, development of attitudes and interactional dynamics. Prerequisites: PSY 101, PSY 222 or 223 or 230, and PSY 201. 3 credits.

**PSY 331 CRIMINAL PSYCHOLOGY** studies the psychological theories of crime causation. Crosslisted JPP 311. Prerequisites: PSY 101, PSY 315 and PSY 425. 3 credits.

**PSY 354 GENDER AND COMMUNICATION** studies the differences women and men exhibit when communicating. Verbal and nonverbal differences are studied, including why such differences occur. Gender-specific issues in dating, education, the family, religion, and the work place will be discussed. A student project focusing on how the media stereotypes male and female roles is required. Crosslisted COMM 354. 3 credits.

**PSY 360 PSYCHOLOGY AND RELIGION** explores the relationship between psychology and religion. Such a relationship has long been the subject of major concern to scholars as epitomized by the works of C.G. Jung, William James, V. Frankl, R. Otto, and many others. This is an excellent course for those who are majoring in psychology, religion, or social work. Prerequisites: PSY 310 and one of the following SOC 203 or REL 410.

**PSY 410 RESEARCH METHODS** is a study of scientific methods used in the analysis of society. Overview of the role of theory in research, field and laboratory methods of observation and data gathering, construction of research design, analysis and interpretation of data. This course needs to be taken before enrollment in PSY 490. Prerequisite: PSY 245 and upper division status. 3 credits.

**PSY 425 ABNORMAL PSYCHOLOGY** studies behavioral disorders in adults and children with special emphasis on the effects of social conditions and social change on the nature and incidence of maladaptive behaviors in American Society and on the major contemporary approaches to therapy used in the treatment of these disorders. Prerequisites: PSY 101 and PSY 221 or 222 or 223 or PSY 310. 3 credits.

**PSY 450 PRACTICUM IN PSYCHOLOGY** offers students supervised practical experience in local agencies and institutions providing psychological services. Training, workshops, and/or associated readings are required. Prerequisites: senior standing and departmental approval. 3 credits.

**PSY 451 THEORIES OF PERSUASION** examines the many forms of persuasion and the settings in which each occurs. The course will also look at the dynamics of persuasion in brainwashing and subliminal message making. Students will study attitude change as they listen critically to guest speakers, analyze persuasive appeals and take field trips to observe the process in action. Crosslisted COMM 451. Prerequisite: PSY 101. 3 credits.

**PSY 460 PRINCIPLES OF COUNSELING** introduces the student to the theory and practice of clinical psychology centering on major approaches to counseling and psychotherapy. Theory and practice are integrated and applied to practical settings and interpersonal relationships. Attention will be given to role playing, interviewing techniques, and the dynamics, purpose and goals of a helping relationship. Prerequisite: PSY 101, 310 strongly recommended or consent of instructor. 3 credits.

**PSY 490 SENIOR PROJECT/SEMINAR** provides opportunity for students to work with special schools or topics in the fields of sociology, psychology, economics and education. Individual research or group projects will be required. Enrollment for this course is during spring of the senior year. Prerequisite: PSY 245 and PSY 410. 3 credits.

**PSY 491 READINGS IN PSYCHOLOGY** provides independent study and research under the direction of faculty member. 3 credits.

## RADIOLOGIC TECHNOLOGY

### RADIOLOGY ALLIANCE: COLUMBIA ST MARYS, FROEDERT HOSPITAL, WHEATON FRANCISCAN-ST JOSEPH

The curriculum for the Alliance is drawn up and taught according to the course of study approved by the Joint Review Committee on Education in Radiologic Technology (ASRT curriculum). Classes are usually one to two hours duration and are held at regularly scheduled times.

**RT 310 INTRODUCTION TO RADIOLOGY TECHNOLOGY** This is a two-credit course designed as an introduction to provide an overview of the foundations in radiography and the practitioner's role in the health care delivery system. Principles, practices and policies of the health care organizations are examined and discussed in addition to professional responsibilities of the radiographer. Course content will include an introduction to basic concepts of body mechanics, vital signs, EKG, and infection control. CPR certification will be completed. Evaluation will be on the basis of quizzes, unit tests and a final exam.

**RT 313 RADIATION PROTECTION** This is a two-credit course. Content is designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations are incorporated. Course includes all aspects of radiation protection, dose limiting recommendations, detection duties and the cardinal principles of protection. Evaluation is on the basis of quizzes, unit tests and a final exam.

**RT 323 PRINCIPLES OF RADIOGRAPHIC EXPOSURE I** This is a three-credit course; content is designed to provide an overview of basic mathematics, an introduction to x-ray production, exposure factors, the control panel, beam restriction, filters, computed radiography, grids and radiographic quality. Evaluation will be based on quizzes, unit exams and a final exam.

**RT 340 RADIOGRAPHIC PROCEDURES I** This is a three-credit course utilizing lectures, demonstrations and laboratory practice. Items to be covered include radiographic anatomy and procedures of the upper and lower extremities, chest, abdomen, and barium studies. Pediatric imaging for each procedure will be discussed. The interns will identify radiographic anatomy, assess radiographic images for accurateness and identify evaluation criteria for a variety of procedures. This course integrates knowledge and skills from several didactic units. Evaluation will be based on quizzes, unit tests and a final exam.

**RT 312 MEDICAL TERMINOLOGY** (on-line course)\*\* This is a two-credit course. This will be a self-study unit. Interns will be required to complete all tests on the intranet. All assignments must be completed by the end of the second semester. Course work includes medical suffixes and prefixes, word-roots, and combining forms. Evaluation will be based on unit tests.

**RT 324 PRINCIPLES OF RADIOGRAPHIC EXPOSURE II** This is a three-credit course; content is design to provide an knowledge on radiographic film, screens and film processing, radiographic quality, special imaging equipment. Evaluation will be based on quizzes, unit exams and a final exam.

**RT 341 RADIOGRAPHIC PROCEDURES II** This is a three-credit course, utilizing lectures, demonstrations and laboratory practice. Radiographic anatomy and procedures for the bony thorax, vertebral column, and iodinated studies will be covered. Pediatric imaging for each procedure will be discussed. The pharmacology of contrast media will be introduced. The intern will identify radiographic anatomy, assess radiographic images for accurateness and identify evaluation criteria for a variety of procedures. This course integrates knowledge and skills from several didactic units. Evaluation will be based on quizzes, unit tests and a final exam.

**RT 369 METHODS OF PATIENT CARE** This is a three-credit course; content is designed to provide the basic concepts of patient care, including consideration for the diversity, physical and psychological needs of the patient and family. In addition the course will provide the intern with advanced knowledge of aseptic and sterile techniques, venipuncture, pharmacology and medical ethics and law. Evaluation will be on the basis of quizzes, unit tests, and a final exam.

**RT 423 RADIOGRAPHIC PROCEDURES III** This is a one-credit course, utilizing lectures, demonstrations and laboratory practice. Radiographic anatomy and procedures for the cranium, facial bones will be discussed. Pediatric imaging for each procedure will be discussed. The interns will identify radiographic anatomy, assess radiographic images for accurateness and identify evaluation criteria for a variety of procedures. Historical exams and special fluoroscopic imaging will also be presented. This course integrates knowledge and skills from several didactic units. Evaluation will be based on quizzes, unit tests and a final exam.

**RT 424 RADIOGRAPHIC PROCEDURES IV** This is a three-credit course. Topics to be covered include Special Orthopedic positioning, special gastrointestinal positioning, interventional procedures, basic principals of CT and MRI imaging. Evaluation will be on the basis of quizzes, tests and a final exam.

**RT 405 CROSS SECTIONAL ANATOMY** This is a three-credit course designed to give the intern basic knowledge of cross-sectional anatomy at a minimum of the head and neck, thorax and abdomen. Evaluation will be on the basis of quizzes, unit tests and a final exam. Instruction incorporates CT and MR images.

**RT 406 RADIOGRAPHIC PHYSICS I** This is a two-credit course. Course content is designed to establish basic knowledge of atomic structure and terminology. Also presented are the nature and characteristics of radiation, x-ray production and the fundamentals of photon interactions with matter. Introduction will include magnetism, electricity, and electromagnetism. Evaluation will be on the basis of unit tests and a final exam.

**RT 409 DIGITAL IMAGING** This is a three-credit course; content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition display, archiving and retrieval are discussed. Guidelines for selection of exposure factors and evaluating images within a digital system assist interns to bridge between film-based and digital imaging systems. Evaluation will be on the basis of quizzes, unit tests, and a final examination.



**SEMESTER V**

**RT 421 RADIOBIOLOGY** This is a two-credit course; content is designed to provide an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues and the body as a whole are presented. Factors affecting biological response are presented, including acute and chronic effects of radiation. Evaluation is on the basis of quizzes, unit tests and a final exam.

**RT 407 RADIOGRAPHIC PHYSICS II** This is a two-credit course. Content is designed to establish knowledge in tube and generator circuitry. Also presented are the nature and characteristics of radiation, x-ray production and the fundamentals of photon interactions with matter. Evaluation will be on the basis of quizzes, unit tests and a final exam.

**RT 469 QUALITY ASSURANCE** This is a two-credit course; content is designed to provide the intern the ability to evaluate all aspects of the imaging system from processor to generator. The intern will perform basic equipment tests, identify and trouble shoot equipment problems. Lecture on quality control and quality assurance procedures within a radiology department will be covered. Evaluation will be on the basis of the accuracy and timeliness of laboratory procedures, unit tests and a final exam.

**RT 450 INDEPENDENT STUDY** Interns will be assigned a written research project that will include an oral presentation, video display or a scientific exhibit. This project will be assigned two credits. This will enable the intern to develop critical thinking, research and writing skills along with an appreciation for professional development. Evaluation will be on the basis of research organization, completeness and presentation. The intern will select a topic of their choice. Successful completion of the independent study is a graduation requirement.

**RT 455 RADIOGRAPHIC PATHOLOGY** This is a two credit course; content is designed to introduce concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection. Evaluation will be on the basis of quizzes, unit exams and a final exam.

**RT 475 PROFESSIONAL DEVELOPMENT/REGISTRY REVIEW** This is a one-credit course that serves as an overview of the entire program. This course will prepare the intern for the American Registry of Radiologic Technologists. Course will also include study of the evolution of modern health care systems and professional organizations in Radiology. Evaluation will be on the basis of mock registry examinations.

**COMPREHENSIVE FINALS** Comprehensive finals are given at the end of each year. These are non-credit and are used to aid the intern in developing test-taking skills for the American Registry of Radiologic Technologists. Successful completion of these examinations is required; see Comprehensive final policy statement under Graduation Requirements.

**TERMINAL CLINICAL COMPETENCY** At the end of semester III and VI (Summer Session I and II) all intern will complete a terminal clinical competency assessment. Interns will be assessed individually by two clinical instructors. They will be given a scenario and must complete on a timely basis. This is a non-credit assessment but successful completion is required for advancement or graduation.

**RADIOGRAPHY CLINICAL EDUCATION** The clinical education is broken down into six semesters. There are a required number of competencies the intern must complete by the end of the 6th semester. Evaluation of the intern's positioning skills, equipment manipulation, and use of radiation protection, patient care and knowledge of image production is conducted by the Clinical Instructors, Clinical Coordinator, Program Director and qualified staff technologists. The break down of clinical credit is as follows:

Semester I	2 credits	Semester IV	3 credits
Semester II	3 credits	Semester V	4 credits
Semester III	4 credits	Semester VI	4 credits

**REHABILITATIVE SCIENCE**

**OT 104 COMPUTER APPLICATIONS FOR OCCUPATIONAL THERAPY** A course for the computer novice, OT 104 provides a foundation in technology use. Included is a survey of computer concepts and computer applications. Students will become users of microcomputers and the basic administrative computer tools of word processing, spreadsheet, information searching and Internet application software. 1 credit.

**OT 106 MEDICAL TERMINOLOGY** OT 106 introduces a word-building system for medical terms through the use of a programmed text and facilitates appropriate pronunciation and use of the words derived from Greek and Latin components. No prerequisites. 1 credit.

**OT 201 ONLINE LEARNING LAB** This course provides an orientation to online learning and the Transitional Program for Occupational Therapy Assistants (TOTA). As a lab course the focus is on experiencing the skills needed for active participation in online courses. This lab is designed to orient the student pragmatically to Concordia University and the Occupational Therapy program while developing the skills needed to be successful with the CUW learning management software and other technology tools. Within the course students will establish initial contact with their advisors. 3 credits. (Note: this course is only open to students enrolled in the TOTA program).

**RSC 201 MEDICAL ETHICS AND REHABILITATION** Ethics and Rehabilitation is offered to provide students with the tools necessary to recognize and engage successfully the ethical challenges that arise in rehabilitation practice. Since today's medicine functions in a secular atmosphere, the student must be able to understand and converse with other health care professions concerning standard medical ethics concepts such as: autonomy, informed consent, patient confidentiality, life and death decision making, and professional responsibility. This course will also provide a brief overview of the most common ethical systems encountered in our pluralistic society in dialogue with Christian presuppositions and a Lutheran understanding of Law and Gospel. Case studies, course reading, lectures, and discussions will develop to articulate ethical challenges in rehabilitation and to make critical, informed, and God-pleasing ethical decisions. 3 credits.

**RSC 304 TEACHING AND LEARNING IN REHABILITATION** This course will introduce students to various learning theories and teaching strategies as it relates to rehabilitation. This exploration will pay particular attention to the needs of an adult learner. Activities will help students appreciate how teaching is a part of working in a rehabilitation setting. Concepts of motivation in learning will be explored along with the impact of physical, cognitive, and psychosocial deficits in learning. 3 credits.

**RSC 307 HEALTH PROMOTION IN REHABILITATION** This course will introduce the student to health promotion. The concept of health promotion will be discussed through the exploration of wellness models and key components of health promotion and wellness. The students will be able to discuss the difference between rehabilitation and health promotion. This course will provide learning experiences that will enable the student to identify opportunities for the provision of health promotion services as a rehabilitation provider. Environments for health promotion will be explored that include traditional and health care environments and nontraditional environments such as school systems and social systems in the community. 3 credits.

**RSC 310 CULTURE IN REHABILITATION** This course will introduce students to the issues of cultural diversity in today's health care arena. The importance of recognizing cultural differences, the role of culture in health care, negotiating cultural differences in working with clients, planning for evaluations, and designing therapeutic interventions will be explored. In addition, language as a cultural barrier, the impact of professional jargon cross-culturally, and standardized instruments and language issues will be investigated. 3 credits.



## RELIGION

**\*The basic courses in biblical content (REL 100, or 201 & 203) and in Christian Doctrine (REL 110 or 204) are prerequisites for every other theology course.**

**REL 100 THE BIBLE** is an overview of the Bible intended to acquaint the student with its background, content and messages. This introductory course satisfies the core curriculum requirements for Bible content for students who are not in a church-work program. 3 credits.

**REL 105 CHURCH LEADERSHIP SEMINAR** introduces the students to the lay ministry program by seeking avenues for theological and spiritual formation to serve in the church. 1 credit (TEE)

**REL 110 CHRISTIAN FAITH** is an overview of Christian theology intended to acquaint the students with key theological concepts as they relate to every day life. This introductory course satisfies the core curriculum requirement for Christian doctrine for students who are not in church-work program. 3 credits.

**REL 201 THE OLD TESTAMENT** is an overview of the Old Testament intended to acquaint the student with its background, content and messages. This introductory course satisfies the core curriculum requirement for Bible content, but students who take it must also take REL 203 New Testament elsewhere in their programs. It is required for students in a church-work program. Prerequisite: enrollment in church-work program or permission of instructor. 3 credits.

**REL 203 THE NEW TESTAMENT** is an overview of the New Testament intended to acquaint the student with its background, content and messages. This introductory course forms a pair with REL 201 Old Testament for Bible content, and thus may not be counted as the elective third theology course in the core curriculum. Prerequisite: enrollment in church-work program or permission of instructor. 3 credits.

**REL 204 BIBLICAL THEOLOGY** is a systematic study of major areas of Christian doctrine with an emphasis on what Scripture says, as well as how Lutheran doctrine reflects what Scripture says. This introductory course satisfies the core curriculum requirement for Christian Doctrine, and is required for students in a church-work program. Prerequisite: enrollment in church-work program or permission of instructor. 3 credits.

**REL 210 GREAT COMMISSION EVANGELISM** presents an overview of the Biblical basis for evangelism and an in-depth study of the basic components of the message and technique of Christian witness. Outreach elective (evangelism). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 215 FRIENDSHIP EVANGELISM** develops the ability of the student to share the Gospel with a non-Christian in the context of a growing friendship. Prior enrollment in REL 210 is recommended. Outreach elective (evangelism). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 221 LUTHERAN WORSHIP** introduces the main terms and elements of traditional and contemporary worship. The student is exposed to a variety of art forms and the ways in which they can be incorporated into the worship experience. Along with learning the principles involved in assisting with leading a worship service, the student practices these skills in the community. This course prepares the student for REL 222 Worship Practicum. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 227 YOUTH MINISTRY I** equips the student with the understanding, attitudes and the theory needed to develop a ministry with and for youth in a congregation. Along with the Scriptural and theoretical principles of youth ministry, this course prepares students for practical experiences encountered in REL 245 Ministry Practicum. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 229 RELIGIOUS EDUCATION OF YOUTH AND ADULTS** equips the students with practical methods, skills, and resources to teach religion to youth and adults in a parish setting. Provides students with opportunities to strengthen their ability to communicate the Gospel effectively. Religious education elective. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 233 COMMUNICATING BIBLE MESSAGES** helps the student acquire greater skill in communicating meaningful Bible messages, by learning the theory and practice of analyzing a text of Scripture, writing a message for a specific audience based on that text, and delivering the message. Topical and other creative approaches will also be examined. Religious education elective. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 245 MINISTRY PRACTICUM** is intended for any student interested in practical experience in a specified area of church work. Forty hours for each credit earned will be spent in a parish or institution with involvement in hands on, supervised training with a skilled supervisor. Time will also be devoted to readings and discussion sessions. REL 245 may be repeated in subsequent semesters with different ministry specializations. Prerequisite: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]), a foundational course in the area of ministry specialization 1-3 credits.

**REL 287 CHRISTIAN CARE GIVING** offers the student preparing for full-time church work opportunity to understand and apply the theology of the cross and practice of the church in Christian care giving. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 294 GENESIS** covers the teachings of Genesis with special reference to the origins of the human race, the creation-evolution debate, the flood, and the patriarchs. Bible elective (OT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 298 FAITH AND CULTURE** explores the role of religion in defining our way of life and self-understanding and how culture, in turn, may shape spirituality. Major worldviews and their influence on the faith experience will be analyzed. Special attention will be given to Christianity in this interrelationship of faith and culture. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 303 BIBLICAL FAITH AND PEOPLE OF COLOR** is a study of biblical faith which allows the student to analyze the religious, cultural, and social milieus of the past, and to analyze the basic components of the Gospel message and techniques of strengthening human relationships. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 307 WISDOM OF ISRAEL** is an examination of the wisdom literature of the Old Testament: Job, Psalms, Proverbs, Ecclesiastes, and the Song of Songs. The course studies biblical poetry, devotional literature, and the major questions of life. Bible elective (OT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 310 RELIGION IN AMERICA TODAY** gives the student an overview of the religious life of people in our country. Such topics as the mainline Christian denominations, the rise of sects and cults, the ecumenical movement, the relation of church and state to each other and humanism and democracy as religions are discussed. Comparative religions elective. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 311 CHURCH IN MISSION** studies the mission of the Church with a vision toward contemporary ministry and outreach. Emphasis will be given to cross-generational and cross-cultural outreach methods. Outreach elective (evangelism). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 312 OFFICE OF THE PROFESSIONAL CHURCH WORKER** studies the role of auxiliary ministries in the light of the New Testament and the Lutheran Confessions. It pays particular attention to church administration and conflict resolution in congregations. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 316 WORLD MISSIONS I** explores the history and practice of Christian missionary work and provides students with some initial background in preparation for missionary service. Outreach elective (missions). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 326 WORLD MISSIONS II** provides additional background information for students considering missionary service, continuing the exploration of missions begun in REL 316 World Missions I. This course looks into the history of missions, contemporary issues of missions, and the practice of missions. Outreach elective (missions). Prerequisite: REL 316. 3 credits.

- REL 327 YOUTH MINISTRY II** Develops skills in youth ministry acquired in REL 227. Special attention is given to organizational competence at the beginning of service as a youth director, with emphasis in budgeting, staff relationships and risk management. Students will explore obstacles teens encounter, and will develop short-term, Gospel-centered ministry skills. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]); REL 227; REL 245 (may be taken concurrently). 3 credits.
- REL 328 FAMILY AND YOUTH MINISTRY** explores congregation ministry with and for families by providing students with an understanding of parent and child relationships, teen development, and the place of faith and the church in family life. Special attention is paid to family life education, intergenerational ministry, and strategic planning, with the goal of building ministries that strengthen family relationships. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 333 WHAT IS TRUTH? A SURVEY OF CHRISTIAN THOUGHT** reviews how Christians have expressed the mystery and majesty of God's truth, from early Christian writers to the intellectual searchers of the twentieth century, from Augustine and Anselm to Bonhoeffer and Barth. This course familiarizes students with some of the most influential thinkers of Christianity. Students explore the themes that have fascinated generations of Christians through the centuries: What drives someone to martyrdom? Why did Christ have to be a man? Can we prove God's existence? Who can be saved through a cross? Why does the Church have sacraments? Must Christians be ignorant and stupid? Where do we go from here? Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 340 LIFE OF CHRIST** studies the religious and social conditions of the world into which Christ came, His life and teachings as found in the four Gospels, with an overview of the opinions expressed in the apocryphal Gospels, the ancient Church, and modern historical criticism Bible elective (NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 342 DEAD SEA SCROLLS** investigates how these 2,000-year old documents have changed the way people think and write about the Bible and provide a valuable window into the early history of Jews and Christians. Students will be challenged to discover answers to the continuing questions of modern biblical and historical scholarship as it relates to the Christian faith. Bible elective (OT/NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 343 THE GOSPEL OF MARK** Studies the Gospel of Mark as a distinct presentation of the ministry of Jesus. The course will focus on Mark's choices of Jesus' miracles, parables, and travels. The deliberate structure of the Gospel will be highlighted. Bible elective (NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). Three credits.
- REL 344 LUKE/ACTS** will study the main themes of Luke-Acts through a structural, Christ-centered, and historical approach. Selected passages will be given special attention as the portrait of Christ and the founding of his Church are unveiled. Issues that will merit special attention are: Jesus' kingship, His prophetic office, Christian worship in the Early Church, the mission of the Church, end times and Jesus' passion. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 345 JOHANNINE LITERATURE** studies the writings of St. John in the New Testament, namely his Epistles, Gospel, and Revelation. Students examine the Johannine message concerning the person and work of Jesus Christ. Characteristic terms, themes, and doctrines are made the subject of special study. Bible elective (NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 346 PAULINE LITERATURE** studies selected writing of the Apostle Paul to familiarize the student with the historical background, content, purpose, message, and distinctive characteristics of five of Paul's epistles. Bible elective (NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 347 LAW AND GOSPEL IN THE LIFE OF THE CHURCH** leads the student to see more clearly the significance of two major Christian doctrines and the correct relationship between them for a Christian's life. Sections of Scripture, of the Lutheran Confessions and of current theological literature are analyzed in the light of these fundamental teachings. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 351 PROPHETS OF ISRAEL** studies Old Testament prophecy and the prophetic movement, including its origin, development, purpose, methodology, message, and impact. Bible elective (OT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 352 REVELATION AND END TIMES** explores the doctrine of eschatology as it is revealed in the Scripture. Special emphasis is placed on understanding apocalyptic literature as a key to interpreting the Book of Revelation. Texts from Daniel, Ezekiel, Matthew and the writing of Paul are also examined as they relate to the full range of eschatological topics; the millennium, the rapture, Armageddon, the anti-Christ, death, Christ's second coming, resurrection and the eternal state. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 356 LIFE OF PAUL** gives an overview of the life and teachings of the Apostle Paul in terms of his place in the New Testament as an apostle of Jesus Christ against the background of his birth and development. Studies are based on selected texts from Acts and Pauline Epistles. Bible elective (NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 357 WOMEN IN THE CHURCH** explores the multiple dimensions of women's gifts and activities as recorded in the Christian Scriptures and experienced throughout the history of Christianity, with particular interest in applying biblical principles to contemporary feminist perspectives as well as that of women in the church. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 376 CHRISTIAN ETHICS** explores the distinct nature of Christian ethics in dialogue with other forms of ethical inquiries. Contemporary Christian responses to timely ethical issues will also be explored. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 379 RELIGION AND THE LAW** examines current law and the teachings of Scripture regarding civil law and government, the Christian's responsibility to civil government, and various legal, moral, and scriptural issues such as abortion, euthanasia, homosexuality, the death penalty, and freedom of religion in America. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 383 THE GOSPEL OF LUKE** surveys foundational principles and techniques in biblical interpretation using the Gospel of Luke. Bible elective (NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 387 CHRIST'S PEOPLE THROUGH THE AGES** surveys Christian history from Pentecost to the present. Distinctive eras in Christian history will be discussed, with attention to their main contours and the principal dynamic forces at work within them. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 388 VARIETIES OF BELIEF** provides a framework for knowing about the teachings, practices, organization and historical development of world religions and various Christian communities. Emphasis is also placed upon the Christian living in relation to the peoples of other faiths especially in the North American context with compassion, biblical confession and a missional intention. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 389 MONASTIC ROOTS** investigates the history, theology, and practice of monasticism in the light of the Reformation. Readings from Augustine, Benedict, and other monastic writers will be supplemented with materials from the pen of Martin Luther. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 390 SPIRITUALITY OF JAMAICA** introduces students to a diversity of expressions of human spirituality in a distinctively different culture. On-site experiences of at least three spiritual movements will be investigated on the island of Jamaica. Winterim. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 404 LUTHERAN CONFESSIONS** is an overview of the historical background and major teachings of the Lutheran Confessions. The major thrust of the course is a discussion of the doctrines of the Augsburg Confessions as these are also expounded in the other Confessions of the Lutheran Church. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.
- REL 410 WORLD RELIGIONS** surveys living non-Christian religions in terms of worship, beliefs, values, history and their encounter with Christianity. Comparative religions elective. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 416 THE PRACTICE OF MISSIONS** facilitates a supervised mission experience for students interested in local or international missions. Outreach elective (missions). Prerequisites: REL 316, completed Missions Internship Contract (available from the theology department). 3 credits.

**REL 420 LAY MINISTRY INTERNSHIP** is a course which puts theory into practice in a specialized setting unique to the individual student need. The student intern is introduced to the congregational or institutional arena of professional church work. This presents the student intern the opportunity to experience the vocational option of service as a lay minister. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 427 YOUTH MINISTRY III** explores the relationship between parish based youth ministry and various support programs in youth ministry. Special attention is given to youth ministry done through camps, weekend retreats, and denominational programs. Students will spend time at a Lutheran camp, attend one or more weekend retreats, and meet with youth ministry leaders of The Lutheran Church - Missouri Synod. Prerequisite: REL 227. 3 credits.

**REL 430 CHRIST IN THE OLD TESTAMENT** studies the Messianic teachings found in the OT, traces their thematic development, identifies their fulfillment in the New Testament, and explores scholarly controversies about their interpretation. Bible elective (OT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 432 THE PSALMS** is a study of the hymnal of ancient Israel, with its interpreters, historical context, and enduring liturgical and theological value. Bible elective (OT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 445 THE LIFE AND THOUGHT OF LUTHER** is a study of Luther the man and the theologian in relation to the world in which he lived. The student will be asked to read and analyze some of Luther's major works. Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 450 TOPICS IN THEOLOGY** is an elective in which students travel to the annual Lutheran theological symposium in Fort Wayne. Students will attend the five day conference and participate in all conference activities related to both exegesis and theology. This course will include both pre-conference readings and a post-conference paper. Winterim elective (OT/NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 456 PASTORAL EPISTLES OF ST. PAUL** surveys the letters of 1-2 Timothy and Titus, relating Paul's concerns for the burgeoning church of the day to such contemporary issues as women in the church, the office of the ministry, and twenty-first century theological formulations. Bible elective (NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 458 HEBREWS AND THE TWO LETTERS OF PETER** studies the background and content of these three epistles of the New Testament. Students will be led to discover for themselves what these letters are teaching and to apply their messages to their own lives and the Christian Church today. Bible elective (NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 476 THE HOLY LAND** offers students the opportunity to experience the land of Israel in person. Students will walk the streets of Jerusalem and Bethlehem, sail on the Sea of Galilee, and taste the brackish waters of the Dead Sea. Guided sightseeing will be supplemented with on-site lectures by noted Bible scholars, museum visitations in Jerusalem, and background readings. Winterim. Bible elective (OT/NT). Prerequisites: Bible Content (REL 100 [or 201 & 203]); Christian Doctrine (REL 110 [or 204]). 3 credits.

**REL 490 SENIOR SEMINAR I** provides students with an opportunity to develop a research project in a specific area of theology and demonstrate their ability to synthesize and apply their theological education in a culminating undergraduate experience. Prerequisites: REL 201, 203, 204; enrollment in a church work program, senior standing. 3 credits.

**REL 491 SENIOR SEMINAR II** provides students with an opportunity to develop a research project in a specific area of theology and demonstrate their ability to synthesize and apply their theological education in a culminating undergraduate experience. Prerequisites: REL 490. 3 credits.

**REL 495 LAY MINISTRY SEMINAR** brings into focus the student's vocation and the utilization of their spiritual gifts in the service of the church. The participants will present, in light of Lutheran Confessional theology, their personal vocational goals to serve in the church. Prerequisites: Completion of Level I of the Lay Ministry Program and acceptance into Level II. 1 credit.

## SCIENCE

**SCI 100 INTRODUCTION TO NATURAL SCIENCE** studies selected topics from the natural sciences with emphasis on practical implications of an understanding of those topics. In addition, controversial issues regarding the impact of science on society are also examined. 4 credits.

**SCI 135 EARTH SCIENCE** is an integrated study of the materials & physical features of Earth and the processes that form and shape them. Map skills are also developed. Cross-listed (Physical Geography) GEOG 311. 4 credits.

**SCI 150 LIFE SCIENCES** is an integrated approach to the study of biology and environmental science designed for education majors. Prerequisite: SCI 155 or 1 year of high school chemistry. 4 credits.

**SCI 155 PHYSICAL SCIENCES** is an integrated approach to the study of physics, chemistry, and astronomy designed for education majors. Prerequisite: One year of college preparatory algebra in high school. 4 credits.

**SCI 195 METEOROLOGY** provides a physical description of the weather variables (temperature, wind, moisture, pressure, solar radiation, vorticity, etc.) and the relationships that exist among them. This knowledge will be used to explain weather events such as frontal passages, cloud formation, thunderstorms, and tornadoes. This course will also investigate techniques of forecasting future weather events. Cross-listed (The World's Climates) GEOG 295. 3 credits.

**SCI 246 OCEANOGRAPHY** is a study of the chemical, geologic, physical, and biological features of Earth's oceans. Topics covered include the history of oceanography, chemistry and physical properties of sea water, waves, global currents & seas, and submarine morphology. The laboratory component gives students hands-on experience learning the topics covered by the course. Cross-listed (The World's Oceans) GEOG 246. 4 credits.

**SCI 260 PERSONAL AND COMMUNITY HEALTH** This course seeks to provide participants with an increased awareness of the total effect health, health behaviors, and health decisions have on our lives. By integrating positive health behaviors with knowledge gained as future health professionals, participants cannot only increase their personal health but share that with the community around them. 3 credits.

**SCI 265 PHARMACOLOGY** studies the basic principles of human pharmacology including knowledge of chemical and physical properties, biochemical and physiological effects and adverse reactions of drugs commonly used as therapeutic agents. Prerequisites: CHEM 210, CHEM 213, BIO 249, BIO 270, and NURS 333. 3 credits.

**SCI 303 COSMOGONY** is the study of origins. Questions regarding the origin of the physical universe and life (including human beings) will be explored and possible answers will be offered. The two possible cosmogonic models, Evolution and Creation, will be treated in-depth from a scientific perspective. Each model will be studied and its supporting scientific evidence will be analyzed and critiqued. The nature of science and the differences between operational science and origin science will also be investigated. The primary emphasis of this course concerns scientific evidences for origins; however, philosophical and theological evidences will also be discussed. This course satisfies the core requirement in Critical Inquiry. Prerequisite: Any college-level physical or biological science course. 3 credits.

## SIGN LANGUAGE

**SIGN 101 BEGINNING AMERICAN SIGN LANGUAGE I** is designed for students who have had no formal learning of ALS. Students will develop skills in producing and understanding signs and will be introduced to deaf culture. 3 credits.

## SOCIAL WORK

**SW 100 INTRODUCTION TO SOCIAL WORK** is a survey course designed to provide an overview of the profession of social work, its historical roots, and its current structures and issues. The functions of the social work profession in relation to other human service professions will be discussed. Students will understand the knowledge, skill, and value base of social work as developed and discussed in contemporary and historical literature. Key terms and concepts will be introduced as well as the role social work has played in response to social and economic justice issues, especially for populations at risk. 3 credits.

**SW 205 INTRODUCTION TO SOCIAL WELFARE** introduces basic concepts of the U.S. social welfare system and includes a comparative approach to other countries. Provides an overview of governmental assistance programs and the impact of these programs on individuals and families. Includes an historical and contemporary perspective on social welfare issues. Presents the impact of the economic, political, educational, and religious systems on social welfare systems. Special attention is given to social work values and practice, the strength-based approach, poverty and vulnerable populations. Public health approach is introduced. Students have an opportunity to do service learning at a selected community agency. 3 credits.

**SW 306 SOCIAL WELFARE POLICY AND PROGRAMS** further develops an understanding of contemporary social welfare policies and programs, including private, public, and combined programs. Examines the various historical, political, economic, and societal influences on the development of social welfare policy and service delivery and/or the policy-making process. Provides a framework to analyze and evaluate social welfare policies and programs. Context for policy analysis includes human diversity, human rights, and social and economic justice. Policies related to child welfare, physical and mental health, assistance to the poor, social insurance, hunger, shelter, and civil rights based on gender, race and ethnicity, and immigration will be discussed. The importance of policy practice will be introduced and integrated through community interviews. Prerequisites: SW 100, SW 205 and a social work major with upper division status or consent of instructor. 3 credits.

**SW 310 RESEARCH METHODS I** is taken concurrently with SW 326 and SW 346. The course introduces research methodology pertinent to the evaluation of human service programs, and discusses the rationale for conduction of such evaluations. Among the topics discussed are the relationship of evaluative efforts to program design and implementation, threats to validity of program evaluation, constructing a measurement plan and designs for program and evaluation. Program evaluation knowledge, skills and techniques, such as needs assessment, operationalization of variables, levels of measurement, statistical significance, efficiency and outcome evaluation are introduced. This course emphasizes this methodology when conducting formative evaluations, i.e., needs assessment, program development, market research. Prerequisites: MATH 121, or MATH 128, and/or MATH 205, SW 100, SW 205, and social work major with upper division status. 3 credits.

**SW 326 SKILLS & METHODS OF SOCIAL WORK PRACTICE I: STRATEGIES FOR HELPING INDIVIDUALS** is taken concurrently with SW 346 and SW 310. It is the first in a sequence of three required social work practice courses. Practice I focuses on the development of skills and strategies for helping individuals within a variety of social work and host settings. Key concepts of generalist practice are applied to the development of relationship building and interviewing skills. Generalist Practice is examined as a problem solving process which includes engagement, assessment, intervention, and evaluation. Students learn to view clients and client systems from a strengths perspective. Service learning is incorporated into the semester. Prerequisites: SW 100, SW 205, and Social Work major with upper division status. 3 credits.

**SW 327 FIELD EDUCATION I** is taken concurrently with SW 328 and SW 436. This course engages the student in the practice of beginning social work skills and tasks within an agency setting over a period of one semester (15 weeks). It is designed for the senior level student and requires an average of 16 hours per week in the agency for a minimum of 240 hours. Prerequisites: SW 100, SW 205, SW 306, SW 310, SW 346, SW 347, SW 410, SW 426, and Social Work major with upper division status. 5 credits.

**SW 328 FIELD SEMINAR I** is taken concurrently with SW 327. A seminar format will provide for the sharing of practice experiences and practice issues that occur during field practicum. Discussion topics will focus on agency orientation, self-awareness issues, weekly journal entries, and field learning contract assignments. The seminar will provide for the integration of field experience with classroom learning through discussion and assignments. Prerequisites: SW 100, SW 205, SW 306, SW 310, SW 346, SW 347, SW 410, SW 426, and Social Work major with upper division status. 1 credit.

**SW 346 HUMAN BEHAVIOR/THE SOCIAL ENVIRONMENT I** is taken concurrently with SW 326 and SW 410. This course will examine systems theory. This course develops the person-in-environment concept in social work. Individuals grow and develop within the context of families, groups, organizations, and communities. This course also examines the relationships among human biological, social, psychological, and cultural systems as they affect and are affected by human behavior within the human life span. Prerequisites: PSY 230, BIO 146, SW 100, SW 205, SW 310, SW 326, SW 346, and Social Work major with upper division status, or consent of instructor. 3 credits.

**SW 347 HUMAN BEHAVIOR/THE SOCIAL ENVIRONMENT II** is taken concurrently with SW 306 and SW 426. This course further develops the person-in-environment concept in social work, with a specific focus on human diversity. Provides a framework to understand and analyze the forms and mechanisms of oppression and discrimination. Students learn how diversity shapes the human condition and how their individual position affects their interpretation of the social environment. The dimension and intersectionality of diversity is discussed and includes the factors of age, class, color, culture, disability, ethnicity, gender, gender identity and expression, immigration status, political ideology, race, religion, sex, and sexual orientation. Students gain self-awareness and support in confronting personal biases and values in working with diverse groups. Prerequisites: SW 100, SW 205, SW 310, SW 326, SW 346, SW 410 and Social Work major with upper division status, or consent of instructor. 3 credits.

**SW 375 UNDERSTANDING DEATH AND DYING** examines the role of family, church and other social institutions in our experiences with death and dying. The student will study current theories and practices related to death and dying from the standpoint of developmental and learning theory, and social and cultural attitudes and practices. Theories regarding grief and loss are included. The student will learn social work intervention skills and methods for working with the dying and survivors. Prerequisites: Sophomore standing. Cross listed as SOC 375. 3 credits.

**SW 392 AGING AND THE SOCIAL ENVIRONMENT** investigates the processes of human aging within the social environment. Social gerontology is concerned with the nonphysical aspects of aging. Particular emphasis is placed on its social, psychological, and spiritual aspects, although attention is given to the impact of aging on biological functioning. Group processes, ageism, and social forces that affect the aging process are examined. Prerequisites: SOC 101 or PSYCH 101, PSYCH 230, or consent of instructor. Cross listed as SOC 392. 3 credits.

**SW 410 RESEARCH METHODS II** is taken concurrently with SW 306, SW 347, and SW 426. The course introduces research methodology pertinent to the evaluation of human service programs, and discusses the rationale for conduction of such evaluations. Among the topics discussed are the relationship of evaluative efforts to program design and implementation, threats to validity of program evaluation, constructing a measurement plan and designs for program evaluation. Program evaluation knowledge, skills and techniques, such as needs assessment, operationalization of variables, levels of measurement, statistical significance, efficiency, and outcome evaluation are continued. This course focuses on outcome evaluation of existing programs and personal practice. Prerequisites: MATH 121 or MATH 128, and/or Math 205, SW 310, SW 326, SW 346, and Social Work major with upper division status. 3 credits.

**SW 426 SKILLS AND METHODS OF SOCIAL WORK PRACTICE II: HELPING GROUPS & FAMILIES** is designed to help students further develop their social work practice skills for helping groups and families. Students learn how group work is utilized as a method in social work practice. Various types of groups are examined including task groups, interdisciplinary team meetings, and treatment groups. Students learn skills for forming and conducting groups with different client groups. Generalist practice often requires viewing client situations from a family perspective. Students learn to apply concepts from systems theory to understanding the interpersonal dynamics of family functioning. Working with families and groups utilizes a professional problem solving process to engage, assess, intervene, and evaluate practice with groups. Prerequisites: SW 100, SW 205, SW 306, SW 310, SW 326, SW 346, and Social Work major with upper division status. 3 credits.

**SW 427 FIELD EDUCATION II** is taken concurrently with SW 428 and SW 490. This course is designed for the senior level student and engages the student in supervised direct service activities within an agency setting. This course provides practical experiences in the application of theory and skills acquired in the social work curriculum. The placement requires an average of 16 hours per week in an agency for a minimum of 240 hours. Prerequisites: SW 100, SW 205, SW 306, SW 326, SW 327, SW 310, SW 346, SW 347, SW 410, SW 426, SW 436 and Social Work major with upper division status. 5 credits.

**SW 428 FIELD SEMINAR II** is taken concurrently with SW 427 and SW 490. A seminar format will provide a continuing forum for the integration of field experience with classroom learning through discussion and assignments. Discussion topics will focus on the professional use of self, the use of supervision in practice, on agency-specific policy analysis, and agency provision of service. Prerequisite: SW 100, SW 205, SW 306, SW 310, SW 326, SW 327, SW 328, SW 346, SW 347, SW 410, SW 426, SW 436, and Social Work major with upper division status. 1 credit.



**SW 436 SKILLS & METHODS OF SOCIAL WORK PRACTICE III: ADVOCACY & COMMUNITY CHANGE** is taken concurrently with SW 327 and SW 328. Focus is on developing understanding and skills directed toward larger systems work and change (macro practice) within the context of generalist social work. Includes review of various theoretical and historical perspectives on injustice and oppression, within the context of social change strategies. Examines traditional and nontraditional social action strategies, including community organization and development. Students learn agency and legislative advocacy skills with a specific focus on human rights and social and economic justice. Social work values and ethical perspectives related to social change are analyzed. Prerequisite: SW 100, SW 205, SW 306, SW 310, SW 326, SW 346, SW 347, SW 410, SW 426 and Social Work major with upper division status. 3 credits.

**SW 490 SENIOR INTEGRATIVE SEMINAR** provides the student with the opportunity to integrate classroom and practicum experience for application in their entry level professional practice. This course is the culminating integrative process for baccalaureate generalist practice social work student to further develop and refine communication and problem solving skills; to exercise peer support and evaluation skills; to increase self awareness through group interaction, values clarification and discussion and analysis of major policy and practice issues in the context of social work values and experience, developing a resume and strategies for a job search, examination of fields of practice and related professional issues, and an examination of policy and research. This course is a self-directed readings, critical inquiry, and discussion seminar. Prerequisites: SW 100, SW 205, SW 306, SW 310 SW 346, SW 347, SW 410, SW 326, SW 426, SW 436, SW 327, SW 328; taken concurrently with SW 427 and SW 428; and Social Work major with upper division status. 3 credits.

## SOCIOLOGY

**SOC 101 INTRODUCTION TO SOCIOLOGY** is an introduction to the study of social groups and social relationships. The course analyzes basic sociological concepts to acquaint the student with the fundamental laws governing human relationships. Problems of social structure, social processes and social motivations will be considered. 3 credits.

**SOC 203 CONTEMPORARY SOCIAL PROBLEMS** provides the student with a perspective to view major problems confronting American Society. An eclectic approach is utilized in the analysis of these problems, selected research studies are evaluated and field research trips are conducted. Special attention is given to mental health, crime and delinquency, poverty, mass media and communications, prejudice and discrimination, and urbanization. 3 credits.

**SOC 255 URBAN SOCIETY** introduces the student to the complex nature of the urban area; sensitizes the student to the complexities of urban life; helps the student appreciate what it means to become meaningfully involved in their community and in today's urban society. The course examines racial and ethnic diversity, concepts of the city, historical urbanization in diverse cultures, transportation, housing, population shifts, urban economics, employment, education, industrialization, international population and urbanization, community organization and planning, the church and urban society. 3 credits.

**SOC 256 CRIMINOLOGY** studies why people commit crimes. Crosslisted JPP 103. 3 credits.

**SOC 300 GROUP DYNAMICS** is an introduction to group processes and interpersonal relationships with an emphasis on community, identity, and leadership problem-solving activities. Crosslisted COMM 300. 3 credits.

**SOC 312 MARRIAGE AND FAMILY RELATIONS** considers the major facets of marriage and family life within American culture. It emphasizes such aspects of marriage and the family as personality development, role and status sets, communication patterns, adjustment and conflict. Crosslisted PSY 312. 3 credits.

**SOC 343 WOMAN'S HEALTH** reflects both her individual biology and her sociocultural, economic, and physical environments. A discussion of women's issues through the history of where women were, what they've accomplished, and what yet needs to be done in order for women to realize their potential. Topics include reproductive rights, professional opportunities, work and family, race, and crime and violence against women. This course can be used as an elective or to fulfill a requirement for the Secondary Education Broad Field Social Science major. 3 credits.

**SOC 365 DRUGS, SOCIETY, AND HUMAN BEHAVIOR** investigates the physiological, psychological and social implications of drug use and abuse. Common drugs such as nicotine, caffeine and alcohol as well as the less common and illegal drugs such as marijuana, LSD and cocaine are studied. Prerequisite: SOC 101 and SOC 203 or SOC 255. 2-3 credits.

**SOC 375 UNDERSTANDING DEATH AND DYING** examines the role of family, church, and other social institutions in our experiences with death and dying. The student will study current theories and practices related to death and dying from the standpoint of developmental and learning theory, social and cultural attitudes and practices. The student will learn social work intervention and postvention skills and methods for working with the dying and survivors. Prerequisites: SOC 101, PSY 230, or consent of instructor. Cross listed as SW 375. 3 credits.

## SPANISH

**SPAN 101 BEGINNING SPANISH I** provides a foundation in basic Spanish grammar and vocabulary with practice in listening, speaking, reading, and writing. An orientation to Spanish-speaking countries, their culture, and practice time are integral parts of the course. No previous knowledge of Spanish is assumed. 4 credits.

**SPAN 102 BEGINNING SPANISH II** continues SPAN 101. Students continue to learn basic vocabulary and grammatical structures while further developing the four basic skills of listening, speaking, reading, and writing. Culture is presented throughout the course. Prerequisite: SPAN 101 or 2 years of previous Spanish courses. 4 credits.

**SPAN 201 INTERMEDIATE SPANISH I** reviews and builds upon grammar, increases vocabulary, and includes readings. Students continue to improve their skills as they gain knowledge and a greater understanding of the Spanish-speaking world. Prerequisite: SPAN 102 or 3 years of previous Spanish courses. 3 credits.

**SPAN 202 INTERMEDIATE SPANISH II** is a continuation of SPAN 201. Prerequisite: SPAN 201 or 4 years of previous Spanish courses. 3 credits.

**SPAN 301 SPANISH CONVERSATION & COMPOSITION** focuses intensively on enhancing conversational skills by increasing oral and auditory proficiency as well as on improving the writing skills through related activities. Prerequisite: SPAN 202 or more than 4 years of previous Spanish courses. 3 credits.

**SPAN 307 APPLIED LINGUISTICS** introduces the basic terminology and concepts of linguistics as applied to the Spanish language. It also presents the sound system, morphology, and syntax of Spanish as compared to English and investigates topics in language acquisition. Required for teaching majors/minors. Prerequisite: SPAN 301 or consent of instructor. 3 credits.

**SPAN 315 TOPICS IN SPANISH CONVERSATION** is designed for flexible scheduling and the ability to discuss a wide range of topics to serve the needs of majors, minors, and others who simply want to maintain and improve their language skills. This course will help students review and expand their vocabulary through out-of-class preparation on a variety of topics. Each 1-credit course will have a different topic, and majors and minors must take this course three different times for a total of three credits. 1 credit.

**SPAN 321 SPANISH LITERATURE I** surveys major literary developments in peninsular Spanish literature from its origin through the 18th century. Prerequisite: SPAN 301 or consent of instructor. 3 credits.

**SPAN 322 SPANISH LITERATURE II** surveys major literary developments in peninsular Spanish literature during the 19th and 20th centuries. Prerequisite: SPAN 301 or consent of instructor. 3 credits.

**SPAN 323 LATIN AMERICAN LITERATURE** studies selected literary works by Latin American authors. Prerequisite: SPAN 301 or consent of instructor. 3 credits.

**SPAN 331 ADVANCED SPANISH GRAMMAR & COMPOSITION** focuses on the review and syntax of the more difficult grammatical structures of the Spanish language and on writing and conversational skills at the advanced level. Prerequisite: SPAN 301 or consent of instructor. 3 credits.

**SPAN 332 ADVANCED TOPICS IN SPANISH GRAMMAR** works on perfecting usage of structures which typically are the most difficult to master. Students work toward achieving fluency in the language and on polishing their speaking and writing skills. Prerequisite: SPAN 301 or consent of instructor. 3 credits.



**SPAN 341 CIVILIZATION & CULTURE OF LATIN AMERICA** studies the history and cultures of Latin America from Pre-Columbian civilizations to the present. Taught in Spanish. Prerequisite: SPAN 301 or consent of instructor. 3 credits.

**SPAN 351 CIVILIZATION AND CULTURE OF SPAIN AND SPANISH AMERICA I** studies the history, the cultures and the political, economic and social changes on the Iberian peninsula and in the Americas from antiquity through the colonial period. Prerequisite: successful completion of SPAN 202 or equivalent, 4 years of Spanish in high school, or consent of instructor. 3 credits.

**SPAN 352 CIVILIZATION AND CULTURE OF SPAIN AND SPANISH AMERICA II** studies the history, the cultures and the political, economic and social changes on the Iberian peninsula and in the Americas from the late colonial period through the present. Prerequisite: successful completion of SPAN 202 or equivalent, 4 years of Spanish in high school, or consent of instructor. 3 credits.

**SPAN 355 SPANISH AND SPANISH AMERICAN LITERATURE I** surveys major literary developments and works in Spain and the Americas from the earliest days through about 1700. This course is required for majors. Minors must take either SPAN 355 or SPAN 356. Prerequisite: successful completion of SPAN 202 or equivalent. 4 years of Spanish in high school, or consent of instructor. 3 credits.

**SPAN 356 SPANISH AND SPANISH AMERICAN LITERATURE II** surveys major literary developments and works in Spain and the Americas from about 1700 to the present. This course is required for majors. Minors must take either SPAN 355 or SPAN 356. Prerequisite: successful completion of SPAN 202 or equivalent. 4 years of Spanish in high school, or consent of instructor. 3 credits.

**SPAN 360 SPANISH FOR PROFESSIONS** provides the student with practice of professional terminology necessary in fields such as the Medical Professions, Business, Accounting, Marketing, Finance, International Relations, Social Work, Education, Law, and Criminology. Some areas require background in the Spanish language, while for others the course can be tailored to the student's language level so that beginning and intermediate students also learn or review basic grammar. Content and times are arranged with the instructor. Prerequisite: SPAN 301 or consent of instructor. 3 credits.

**SPAN 361 CIVILIZATION & CULTURE OF SPAIN** examines Spain through its art, history, architecture, religion, music, literature, geography, culture, language, and people. It also looks at the influence of Roman, Muslim, Jewish, and Christian civilizations in Spain. Taught in Spanish. Prerequisite: SPAN 301 or consent of instructor. 3 credits.

**SPAN 490 SEMINAR/CAPSTONE COURSE** for Spanish majors. Under the guidance of a faculty member, the student develops a research project in a specific area of interest related to Spanish language, literature, or culture. At the discretion of the department, the student may be directed to study an area or areas needing additional exposure or reinforcement. Prerequisite: Senior standing or consent of instructor. 3 credits.

## THEATRE

**THTR 231 STAGECRAFT** gives the student hands-on experience in the various areas of stagecraft including such topics as set design, construction, painting, and decorating; stage lighting; and the making and finding of stage properties. 3 credits.

**THTR 254 CHILDREN'S THEATRE** prepares students to create and perform children's theatre for performance and ministry. The class offers an opportunity to perform for live audiences, and students who like to work behind the scenes will be able to write/direct original pieces (or an adaptation) for performance. Prerequisites: None. 3 credits.

**THTR 261 ACTING I** explores the history and theories of acting; and the techniques of voice, movement, improvisation, and character development for the stage. 3 credits.

**THTR 268 MUSICAL THEATRE** explores the history and theories of acting; and the techniques of voice, movement, improvisation, and character development for the stage. 3 credits.

**THTR 269 MUSICAL THEATRE AND DANCE** focuses on musicals that have a strong dance element (i.e. several Fosse musicals, Cole Porter, etc.) and learn the mechanics of choreography as well as creating and building strong musical theatre personas. In addition, students will learn how to interpret lyrics, "sell" a song, and basic fundamentals of musical theatre acting. 3 credits.

**THTR 350 20TH CENTURY AMERICAN DRAMA** studies the contributions of key American playwrights by the period. Writers to be studied may include Eugene O'Neill, Tennessee Williams, Arthur Miller, and Edward Albee. 3 credits.

**THTR 363 ACTING II** builds on the foundation developed during THTR 261 and further expands stage acting skills and techniques through scene work and improvisational exercises. Prerequisite: THTR 261. 3 credits.

**THTR 371 STAGE DIRECTING** explores the creative process by which a director transforms a literary script into a live performance for the stage. The course covers such topics as selecting and preparing the script, planning rehearsals, developing stage pictures, creating tension, blocking, and types of rehearsals. Prerequisite: THTR 261, or permission of the instructor. 3 credits.

**THTR 460 ACTORS' WORKSHOP** provides student actors with opportunities to expand their talents in a rehearsal environment and to display them in performance situations. Students will rehearse and publicly perform scenes from plays. Prerequisite: Audition or permission of the instructor. 3 credits.

## FULL TIME FACULTY

### ANDRITZKY, JOSEPH G.

Associate Professor of Justice and Public Policy  
B.S., California State University,  
Long Beach; M.P.A., University of Southern  
California; Ph.D., Claremont Graduate  
School. At Concordia since 1990.

### ARNESON, DEAN L.

Associate Professor of Pharmacy Practice  
Academic Dean, School of Pharmacy  
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### ARNHOLT, PHILIP J.

Professor of Science  
B.S., M.S., Eastern Illinois University; Ph.D.,  
University of Nebraska; LCMS Colloquy,  
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### BARNETT, JON J.

Assistant Professor of Chemistry  
B.S., University of Montevallo;  
Ph.D., Auburn University  
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### BARNETT, MITCHELL

Assistant Professor of Pharmaceutical Science,  
Director of Pharmacy Assessment  
B.S., M.S., Pharm.D., The University of Iowa.  
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### BAUM, JON E.

Professor of Business and Mathematics  
B.S., Valparaiso University, M.S., M.B.A.,  
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### BEHNKE, JOHN

Professor of Music  
B.A., Concordia University River Forest;  
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Illinois. At Concordia since 1986.

### BELL, MARJORIE

Associate Professor of Art  
B.A., Augustana College; M.S., University  
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Stritch University. At Concordia since 1994.

### BESCH, MICHAEL

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Vice President of Adult & Continuing Education  
B.A., University of Wisconsin-Milwaukee;  
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### BESSERT, BRUCE

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### BEZIK, MARK

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### BICHLER, KATHERINE

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### BLODGETT, MARGARET

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### BORST, DAVID

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Dean, School of Business and Legal Studies  
Director, Graduate Business Program  
Executive Director,  
International Student Services  
B.S., M.B.A., Marquette University,  
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Sarasota. At Concordia since 1997.

### BORST, MICHAEL

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B.A., Calvin College, Grand Rapids,  
Michigan; M.S., Western Michigan  
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### BROWN, MICHAEL C.

Associate Professor of Pharmacy Practice  
B.S., Pharm.D., University of Wisconsin-  
Madison School of Pharmacy.  
At Concordia since 2009.

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The Act assures students "the right to inspect any and all official records, files, and data directly related..." to themselves, and assures the student an opportunity for debate or correction of inaccurate, misleading, or otherwise inappropriate data in the student's file.

The Act provides that no party may review a student's record with the exception of the following, who do not need written consent of the student to view a record: other school officials, officials of other schools or systems in which the student intends to enroll, authorized representatives of (1) the Comptroller General of the U.S., (2) the Secretary of H.E.W., (3) administrative head of an education agency and (4) state educational authorities. Persons working in connection with a student's application for, or receipt of, financial aid. Any other than those listed above can obtain access to a student's file only upon written release from the student. This record will be available for inspection only by the student. The following procedure has been established for CUW students.

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- student's name
- address including e-mail
- telephone number
- dates of attendance
- photo
- class standing and class schedules
- previous institution(s) attended
- major field of study
- awards
- honors (including Dean's List)
- degree(s) conferred (including date)
- past and present participation in official recorded sports activities
- physical factors (height, weight of athletes)
- date and place of birth

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Family Policy Compliance Office - U.S. Department of Education  
600 Independence Avenue, SW - Washington, DC 20202-4605

### **CAMPUS SAFETY AND CAMPUS CRIME REPORT**

The safety of all members of our campus community is a high priority at Concordia University Wisconsin. Become an informed member of our campus community to protect yourself and welcome visitors.

A copy of Concordia University's annual campus security report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by the University; and on public property within, or immediately adjacent to and accessible from the campus. This report also includes institutional policies concerning campus security/safety, such as alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters.

You may obtain a copy of this report through any one of the means listed below by contacting the Student Life Office of Concordia University requesting either a written copy or an electronic copy (sent via e-mail).

US Mail: Concordia University Wisconsin - Student Life Office  
12800 North Lake Shore Drive - Mequon, WI 53097

E-mail: [student.life@cuw.edu](mailto:student.life@cuw.edu)  
Location: Luther Hall, Room 127 (above address)

### **GRIEVANCE PROCEDURE**

Students with grievances may wish to consult with their academic advisor or the appropriate division chairperson. Procedure for the process involved in working through a grievance is spelled out in the Student Handbook.

### **NON-DISCRIMINATION POLICIES**

Concordia University Wisconsin admits qualified students of any age, sex, race, color, national or ethnic origin, physical or mental conditions, or developmental disability, to all the rights, privileges, programs, and activities generally accorded or made available to students at the school. Concordia University Wisconsin does not discriminate on the basis of race, color, national or ethnic origin, age, sex, physical or mental condition, or developmental disability in the administration of its admission policies, education policies, scholarship and loan programs, athletic and extra-curricular programs or other school-administered programs.

Concordia University does not discriminate on the basis of handicap. (c.f. Section 504 of the Rehabilitation Act of 1973).

## **SOCIAL WORK DEPARTMENT**

### **AFFIRMATIVE ACTION STATEMENT**

The CUW Department of Social Work supports the affirmative action policy as defined in the Faculty Handbook. Additionally, the Department of Social Work advocates for and applies an affirmative action policy which includes students, field supervisors and agencies. Any form of discrimination is unethical and unjust and the department of social work will actively include people of color, women, those who are physically disabled, diverse national groups, and older, "non-traditional" students.

### **AFFIRMATIVE ACTION PROCEDURES**

Staff Recruitment will be through advertising in public information publications and internal posting, All advertising for faculty and staff will be labeled "Equal Opportunity."

Recruitment will actively seek out diverse populations, particularly minorities and women.

Field placement settings, supervisors, agencies, and other service systems are expected to have affirmative action policies and procedures.

The Department of Social Work will have an Advisory Committee consisting of faculty, professional social service workers from the area, and current students.



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[www.cuw.edu](http://www.cuw.edu)

To view this catalog online, please visit: [www.cuw.edu/catalog](http://www.cuw.edu/catalog)

Concordia University Wisconsin is accredited by the Higher Learning Commission.

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