



**2014-2015 UNDERGRADUATE ACADEMIC CATALOG**



**WISCONSIN LUTHERAN COLLEGE**



# WISCONSIN LUTHERAN COLLEGE

## 2014-2015 Academic Catalog

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## INTRODUCTION

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Each college has its separate character – a uniqueness which sets it apart from other colleges. Consider the religious heritage and commitment, the nature of the community in which it resides, the mission, the size, its faculty and students, its vision and its dreams, and an image of its character emerges. Wisconsin Lutheran College is one of those very special Christian colleges combining the excitement and vitality of a large metropolitan area with the seriousness of helping students to understand more fully the Scriptural implications for their lives, as well as the world in which they live.

### History

When a handful of dedicated Wisconsin Evangelical Lutheran Synod members gathered to organize this liberal arts college in the early 1970s, they had little more than strong faith in God and great determination. They had no facilities and no faculty, yet they proceeded. By the grace of God they opened this infant college in the fall of 1973 with a part-time faculty and two dozen students. It wasn't until two years later that the school had its first full-time president.

The year 1977 was memorable at Wisconsin Lutheran College. God showed how marvelously He works. The school purchased facilities; five complete buildings, an 8.5-acre campus, and a complex set of plans that allowed for growth and development. In 1982, the college reached another milestone when it purchased the entire academic library from Milton College. Volunteers moved and installed this 60,000 volume library. In 1983, the college purchased and installed the science laboratory furnishings of the University of Wisconsin Center at Medford, again largely through the cooperation of volunteers. These major additions helped the college pursue its dream of becoming a four-year college.

After careful study, the faculty and administration submitted a comprehensive curriculum plan to the Board of Regents describing a complete four-year program of study in eleven majors with fifteen minors. In 1984, the Board of Regents approved the program for implementation in the fall of 1985 with the addition of the junior class. The evaluation team from North Central Association of Colleges and Schools concurred with the Board's decision and agreed that the necessary planning and resources existed to enable Wisconsin Lutheran College to move toward accreditation as a baccalaureate degree-granting institution.

The Board of Regents then began extensive master site planning to ensure that the facilities required for a four-year college could be constructed at the present site. In July of 1985 an eighteen room home on 2.65 acres adjacent to the college property was purchased. Architectural consultants acknowledged that the newly expanded campus could accommodate the planned student body.

In May of 1987 the first twelve students graduated from the new four-year curriculum with baccalaureate degrees. In June of 1987 the Executive Commissioners of the North Central Association granted Wisconsin Lutheran College initial accreditation as a baccalaureate degree-granting institution.

By September, construction had begun on the first building to be erected on campus. One year later, on September 10, 1988, the

Marvin M. Schwan Library was completed and dedicated to the glory of God. In July of 1991, after two years of negotiation with the City of Wauwatosa, construction began on the college's second new building, the Recreation Complex. The REX was dedicated on September 12, 1992. A third building, the Center for Arts and Performance, was completed in 1996, and the Campus Center was finished and dedicated in 1998. Two much needed residence halls were constructed and dedicated on September 9, 2000. After two years of additional negotiation with the City of Wauwatosa and neighbors, construction began on the Science Hall which was dedicated on September 11, 2004. In February of 2004 the college purchased 26 acres of land in the northwest quadrant of the Milwaukee County Grounds as a site for its new outdoor athletic complex. Warrior Fields was dedicated on September 10, 2005.

Dr. Gary Greenfield, who served as the college's first President for 28 years, retired in June of 2003. Dr. Timothy Kriewall was inaugurated as the second president on September 7, 2003, and retired in June of 2008. Dr. Daniel Johnson accepted the call to be the third full-time president of Wisconsin Lutheran College in July 2008 and was inaugurated on April 24, 2009. God's abundant grace has been evident throughout the years at Wisconsin Lutheran College. And always, to God be the glory.

### Identity

Wisconsin Lutheran College is a four-year liberal arts college affiliated with the Wisconsin Evangelical Lutheran Synod. It is located in Milwaukee. The college has a two-semester academic year and awards the Bachelor of Arts, Bachelor of Science and Bachelor of Science in Nursing degrees with liberal arts and professional majors and several pre-professional programs.

### Purpose

Wisconsin Lutheran College is a Christian school of higher education offering a program in the arts and sciences. Realizing that in Christ "are hid all the treasures of wisdom and knowledge," the college integrates God's truths into every discipline, helping students relate their faith to life in today's world. Its primary purpose is to provide higher education for students interested in the arts and sciences taught within the framework of Christian doctrine. Although Wisconsin Lutheran College programs are designed for job preparation and upgrading, they are all the more concerned with preparing young Christian men and women to face life and deal with it through the application of Christian principles found in God's Word.

### Organization

Wisconsin Lutheran College is owned, operated, and maintained by a national conference of Wisconsin Evangelical Lutheran Synod congregations. The individual congregations, through their elected delegates, maintain the ultimate control of the school. The Board of Regents is charged with the responsibility of providing an effective local administrative organization through which the purpose of the college can be achieved. The Board of Regents discharges most of its functions in consultation with and through the president of the college, who represents the faculty and is directly responsible to the Board of Regents and the Wisconsin Lutheran College Conference, Incorporated.

The academic offerings and student services described in the catalog represent a description of Wisconsin Lutheran College as it ordinarily operates. However, the college reserves the right to make changes as circumstances warrant.

## Philosophy

### 1. Declaration of Faith

Wisconsin Lutheran College believes, teaches and confesses that the 66 canonical books of the Old and New Testaments--in all their words and all their parts--are the inspired and inerrant Word of God, that these Holy Scriptures are the only source and authority for Christian doctrine and life, that they are efficacious in presenting God's plan of salvation through Law and Gospel, and that they are sufficient and clear in revealing God's truth. Wisconsin Lutheran College believes, teaches, and confesses all the symbols of the Evangelical Lutheran Church as contained in the Book of Concord of 1580 without reservation, not insofar as, but because they are a correct presentation and explanation of the Word of God and a summary of the faith of the Evangelical Lutheran Church. These symbols are the three ecumenical Creeds (Apostles', Nicene, and Athanasian), Dr. Martin Luther's Small Catechism, Dr. Martin Luther's Large Catechism, the Unaltered Augsburg Confession, the Apology of the Augsburg Confession, the Smalcald Articles, and the Formula of Concord.

### 2. Adherence

All that is done or taught at Wisconsin Lutheran College shall be in accordance with the Word of God. Likewise, any controversies or disputes shall be settled by the norm of Holy Scripture.

### 3. Confessional Affiliation

Wisconsin Lutheran College shall maintain confessional fellowship only with a church body that holds to all the truths of God's Word in doctrine and practice and is bound to the confession of faith set forth in this philosophy if, and as long as, such a church body exists.

### 4. Principles of Education

Wisconsin Lutheran College accepts the principle that education is inseparable from religion, that all knowledge in all areas of human thought and endeavor is worthy of inquiry when viewed in the light of human sin and divine grace. It is also committed to the total development of its students, not just intellectually, but also spiritually, emotionally, physically, and socially. In this Christian college the main source of life and growth is God's Word. As members of the Body of Christ, all serve and are served, all teach and all learn. All recognize that the freedom of the Christian life lies within the bounds set forth in Holy Scripture.

## Mission of Wisconsin Lutheran College

Wisconsin Lutheran College, affiliated with the Wisconsin Evangelical Lutheran Synod, is a Lutheran liberal arts college for Christian men and women. The college is committed to providing quality teaching, scholarship, and service that are rooted in Holy Scripture; promoting the spiritual growth of students, faculty, and staff; and preparing students for lives of Christian leadership.

## Accreditation

Wisconsin Lutheran College is accredited by the Higher Learning Commission and a member of the North Central Association. The programs of teacher education are approved by the Wisconsin Department of Public Instruction.

The Higher Learning Commission

Telephone: 312.263.0456

Website: [www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org)

## Effective Catalog

Students are bound by the policies, regulations, and requirements of the catalog in effect at their enrollment at Wisconsin Lutheran College unless they choose to adhere to a subsequent catalog. Students who interrupt their progress toward a degree by withdrawing from the college and then re-enrolling at a later date must abide by the catalog in effect at the time of re-admission if that absence has been more than two consecutive semesters.

All statements contained in this bulletin reflect the approved policies of Wisconsin Lutheran College that were in effect as of July 1, 2014. However, for the best possible educational experience of its students, or for unexpected financial reasons, the college reserves its right to change at any time any of the provisions, statements, policies, curricula, procedures, regulations, and fees.

The academic catalog is published in electronic format every year. The entire college catalog can be found on the college's website. Archived copies of the website catalog are kept by the library on CDs.

## FERPA

Wisconsin Lutheran College voluntarily complies with the Family Education Rights and Privacy Act of 1974 and its amendments. Students have the right to inspect the contents of their campus files and records. Student information other than "directory information" will not be released to people outside the college without student authorization. WLC designates the following as "directory information": student name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of athletic teams, dates of attendance, degrees and awards received, most recent previous school attended, and photograph. Wisconsin Lutheran College may disclose any of those items without prior written consent unless notified in writing within five days of the opening of any given semester or summer session. The relationship Scripture establishes between parents and dependent children is recognized by the college in sharing important information regarding a student's health, status,

and well-being with parents.

Students are notified of their rights under FERPA through the annual publication of the Student Handbook.

## EXPENSES

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A substantial portion of the operating costs of Wisconsin Lutheran College is provided by contributions of individuals, alumni, Wisconsin Evangelical Lutheran Synod congregations, and friends of the college. The remaining portion is paid by students from personal and family resources, scholarships, grants, loans, and employment obtained at or through the college.

Most students who apply to Wisconsin Lutheran College are eligible for some type of non-repayable grant or scholarship (see Financial Aid). Students whose fees are paid in whole or in part by agencies other than the College (Veterans Administration, scholarships, grants, etc.) must notify the Financial Aid Office of their sponsored support at time of registration before arriving on campus so that the student can complete financial arrangements at that time. All remaining balances not covered by financial aid must be paid prior to arriving on campus or paid through one of the following payment plans.

**Full Payment Plan:** Entire semester balance due in full by August 1 and January 1 for the spring semester,.

**WLC 2 Payment Plan:** Spread each semester's payments out over two months. Payments MUST BE RECEIVED on or prior to the stated due dates (8/1 and 10/1 for the fall semester; 1/1 and 3/1 for the spring semester.)

**WLC 4 Payment Plan:** Spread each semester's payments over four consecutive months. Payments MUST BE RECEIVED on or prior to the stated due dates (8/1, 9/1, 10/1, 11/1 for the fall semester; and 1/1, 2/1, 3/1, 4/1 for the spring semester.

The PLUS Partner Program is a unique and innovative way to finance a WLC education. For any parent taking out a Direct PLUS loan, WLC will pay a designated amount of interest for up to four years while the student is enrolled full-time at WLC. The Federal loan opportunity can be combined with the other family resources or with scholarships and need-based financial aid awards to make a high quality education affordable.

**Late Charges:** Late charges, consistent with state law, will be assessed on overdue accounts.

Course fees will become an obligation to the college upon registration. Continuing students are expected to have all financial obligations paid in full BEFORE registering for future semesters. Registration will be cancelled for all students with outstanding balances from previous semesters. Transcripts will not be released for any graduating or withdrawing students having any outstanding account balance.

### Tuition

Tuition is used to help defray the instructional and operating costs of the college. Tuition is assessed at the per-credit fee up to 11 credits. Students enrolled for 12 to 20 credits are charged the fixed full-time

tuition. Students enrolled for 21 or more credits pay the full-time tuition charge plus an overload fee per credit. Students enrolled for 12 or more credits pay no additional tuition for auditing a course. Special and part-time students are assessed a flat fee for auditing a course.

### Activity Fee

The activity fee is used to support student organizations and services. Students taking 6-11 credits in a semester are charged a part time activity fee.

### Housing

Since WLC is a four-year residential college, all students, with the exception of commuters who live at home and seniors (who request to live off-campus), must live on campus. Any exceptions to this policy must be requested in writing to the director of residence life.

The housing fee is assessed to cover the cost of resident housing. Bed linens are provided by the student. Laundry facilities are available. A damage deposit is required of all students who live in college residence halls or apartments. Provided the student has cleared all obligations to the college, any unused portion of the deposit will be refunded when a student vacates the residence hall and does not intend to live in campus housing the following semester. Damage deposit for returning students will be applied to charges in the next semester and not refunded each summer. To reserve a room in student housing, students must sign and return a housing contract and pay a housing deposit. A refund of this deposit will be made if applied for prior to May 1.

Students leaving campus housing but remaining in classes (moving from resident to commuter) will be charged a pro-rata share of both housing and food service based on the number of weeks into the semester prior to the last day to withdraw from a class. After the last day to withdraw from a class, students will be responsible for the total room and board charge.

### Telephone

Wisconsin Lutheran College does not supply individual phone lines for each room. With the almost universal use of cell phones, WLC provides one courtesy phone in each resident building. Campus buildings also have courtesy phones located in main hallways. Students must also provide their own means for calling long distance. Under no circumstances are students allowed to accept collect calls or sign up for any calling plan that will bill a Wisconsin Lutheran College phone number.

### Food Service

All students living in a college residence are required to be on one of the college meal plans. Two meals are served on Saturday and two on Sunday. Meals are not served during college vacation periods. The evening meal is not served on the day immediately preceding a college vacation.

Commitments for the purchase of food and labor involved in food service are made in advance; therefore, no rebates or allowances will be made for missed meals. Block meals on the meal plans expire at the end of each semester. Meal Money associated with meal plans does carryover from fall to spring semester.

**Parking Permit**

Limited parking is available on campus for both resident and commuting students. Campus parking permits can be requested from Johnson Controls at the REX. However, because on-campus parking is limited, resident students are discouraged from bringing automobiles to campus.

**Late Registration**

Students who register after the first day of classes will pay a late registration fee.

**Study Abroad**

Students completing a semester or year abroad while remaining enrolled at WLC will be assessed a study abroad processing fee.

**Additional Fees**

The cost of textbooks, notebooks, and other course materials varies from semester to semester. The student should remember to allow for these costs each semester. Students taking private lessons in voice, piano, organ, or other musical instruments pay a lesson fee. The fees for all music lessons required for a music major will be waived to all music majors following the semester in which they declare a music major. Fees for lessons taken during the freshman year and for those taken before a student declares his/her music major will be billed at the current per-credit tuition charge.

During the add/drop period (first 2 weeks of classes), students dropping music lessons will not be charged for any lessons taken. Between the last day to add/drop classes and the last day to withdraw from a class, students will be charged for the number of lessons taken over total number of lessons in the semester. After the last day to withdraw from a class, students will be responsible for the total music lesson charge.

**Graduation**

A one-time graduation fee of \$75.00 will be charged on all accounts of ALL students scheduled to graduate, regardless of whether or not they plan to participate in the commencement ceremony. This charge will appear on their student tuition account upon submission of an application for degree. This fee will cover the cost of the cap and gown (announcements sold separately), diploma cover and printing expenses, a transcript, ceremony expenses, etc.

**Insurance**

Wisconsin Lutheran College is very committed to promoting good health to ensure our students' academic success. All students are eligible to receive services at the Student Health Center. Many routine care services are available including lab work, vaccinations, prescription refills, counseling and wellness checks. All Student Health Center services are covered at 100%.

The unexpected occurrence and expense of a serious medical condition or emergency can interrupt and even end a student's academic career. Many families have some form of insurance providing adequate coverage for their students. Others will want to consider additional coverage available from the office of the Director of Student Health. Outside the Student Health Center, the coverage and benefits under individual's health plans vary greatly by network and service. Please consult your insurance company for specific benefit information prior

to coming to campus.

Coverage of at least \$100,000 for international students is a recommendation by the American College Health Association and the National Association for Foreign Student Advisors. This purchase will be facilitated with the business office.

**Institutional Refund Policy**

WLC's refund policy applies to a student who withdraws from school or is terminated at a given point in time during the semester. In addition, if the student is living on campus and vacates during that same week, charges are assessed according to the housing and meals refund policy as outlined below\*. Students or parents who feel that individual circumstances warrant exception to this policy may appeal by contacting the dean of students. The refund process begins with the completion of a student withdrawal form with the Dean of Enrollment Services.

Wisconsin Lutheran College's Refund Policy is as follows: students who withdraw from Wisconsin Lutheran College will receive a pro rated refund of educational fees and housing/meals, according to the following schedule:

During first week of classes	90 percent
During second week	80 percent
During third week	60 percent
During fourth week	40 percent
During fifth week	20 percent
After fifth week	none

All refunds include tuition, fees, housing, and meal charges as applicable. Detailed rules and examples of the refund calculations, as defined by federal statute, are available on request from the financial aid office.

\*In cases where a student has received federal financial aid or loans, WLC is required to follow the Federal "Return of Title IV Funds" Policy.

**FINANCIAL AID**

Wisconsin Lutheran College provides full-time degree seeking students in the traditional undergraduate program with financial assistance intended to supplement personal and family resources. Students applying for financial aid are considered for all programs for which they are eligible. Financial aid available to students enrolled less than full time is noted below in the individual program descriptions. For financial aid purposes full-time student status is established as a minimum of 12 credit hours per semester; half-time status is a minimum of six credit hours per semester. The amount of financial aid awarded is generally a combination of scholarships, grants, employment, and loans. It is based on the qualified financial need as determined primarily by the Free Application for Student Aid (FAFSA).

**Classification of Students**

For loan eligibility purposes, a student is classified as a freshman if he or she meets the entrance requirements, as a sophomore when

30 credits have been earned, as a junior when 60 credits have been earned, and as a senior when 92 credits have been earned.

Determination of need: The aid for which a student qualifies is calculated as follows:

1. Cost of attending WLC (tuition, fees, housing, meals, books, transportation, and personal expenses) less family contribution (an estimate of a family's capacity over time to absorb some costs of education) equals qualified financial need (the aid for which a student is applying).

Not all financial aid is based on need. Merit-based aid is available for the student with superior academic achievement or special talent in the fine arts.

### How to Apply

Students applying for merit-based aid alone need only submit a WLC Financial Aid Application. All other filers need to complete the steps below.

1. Submit a WLC Financial Aid Application to the college financial aid office.
2. Complete and submit the Free Application for Federal Student Aid (FAFSA) listing Wisconsin Lutheran College as the recipient of the application information (WLC's federal school code is 014658). Filing the FAFSA can be done electronically at [www.fafsa.gov](http://www.fafsa.gov).

Review of Information. After receiving FAFSA results from the federal processor, the financial aid office will review all statements pertaining to a student's financial situation. At that time, necessary adjustments for any errors in calculation or special circumstances will be noted. If necessary, the student and family will be contacted.

Financial Aid Package. Once a student's need is determined, it will be met with various types of financial aid available to the student. Most financial aid packages will consist of three types of assistance: gift aid (scholarships/grants), employment (federal work-study), and loans. These are listed and described in the next sections. Every effort will be made to arrange a combination of these various sources of aid to equal a student's total calculated need.

Notification and Acceptance of Award. Award notifications for new students will be sent beginning March 15 to those who have filed all required forms before the March 1 priority deadline. After that, new students will receive award notifications within two weeks after the financial aid office has received the necessary completed forms. Students will have until May 1, or 15 days after receipt of award, to respond to their award. Upon request, deadline extensions may be granted through the college's financial aid office. If a student fails to respond by the deadline, WLC cannot guarantee the receipt of any funds offered in the aid award.

Adjustment of Aid Award. Students who receive private (non-WLC) scholarships, grants, or loans are required to report these funds to the financial aid office. In certain cases, federal and state regulations may require an adjustment to the student's financial aid package to prevent an over-award. Adjustments may also be made if there are

changes in a family's financial situation during the academic year or if a student's enrollment status changes.

## SCHOLARSHIPS AND GRANTS

All of the following scholarships and grants are non-repayable. Students may apply for all scholarships and grants for which they qualify. All merit scholarships and grants are based on an unweighted GPA.

### Merit Scholarships/Grants

Scholarships are awarded to full-time undergraduate students for academic achievement and merit based upon their success in high school and on the ACT admissions test. The Presidential Scholarship, Academic Scholarship, and Discovery Grant are mutually exclusive.

#### Presidential Scholarship

Presidential scholarships are merit-based and awarded by the college to selected incoming freshmen with an ACT composite of 27 or SAT score of 1210 and who have a cumulative high school GPA of at least 3.70. The award is \$12000 per year and is renewable for three years at the same amount provided that the presidential scholar maintains a 3.00 cumulative grade point average at WLC.

#### Academic Scholarship

Incoming freshmen who have a composite ACT score of at least 23 or SAT score of 1060 AND a cumulative high school GPA of at least 3.30 are eligible to receive an Academic scholarship. Academic scholarships are \$11000 per year and are renewable for three years at the same amount as long as the student maintains a 3.00 cumulative GPA at WLC. Students who may not have been eligible previously for an academic scholarship may qualify in successive years if they have a cumulative grade point average of at least 3.00 at the end of the previous year.

#### Discovery Grant

Discovery Grants are awarded to first-time, full-time freshmen who have a composite ACT score of 21 or SAT score of 980 AND a cumulative high school GPA of 2.7. Discovery Grants are \$9000 per year and are renewable for three years at the same amount as long as the student maintains a minimum 2.00 cumulative GPA.

#### Endowed Scholarships

Numerous scholarships in varying amounts have been established by private donors. Scholarships are awarded on a combination of both need and merit.

#### Partners in Christian Education Scholarship

The Partners in Christian Education Scholarships is a \$1000 per year scholarship awarded to first-time, full-time freshmen graduating from a Christian high school.

#### Christian Leadership Summit Scholarship

The Christian Leadership Summit Scholarships is a \$1000 per year scholarship awarded to first-time, full-time freshmen graduating from a Christian high school who attend a Christian Leadership Summit.



**Fine Arts Scholarship**

These scholarships are awarded to incoming students who have exceptional talent in the areas of art, music, or theater. Although a student may apply in more than one area, a recipient may receive only one Fine Arts Scholarship. A portfolio for art and an audition for music or theater scholarships is required, along with an application and letters of reference. Scholarships vary in amount from \$1,000 to \$2,000. Music scholarships also include free private music lessons.

**Homeschool Scholarship**

First-time, full-time freshmen who were homeschooled for high school. The award is \$1000 per year.

**Honors Scholarship**

First-time, full-time freshmen accepted into the Honors Program. The award is \$1000 per year.

**Wisconsin Academic Excellence Scholarship**

A \$2250 scholarship for valedictorians of Wisconsin high schools. One-half of the scholarship is funded by the state and the other half by the college.

**Special Scholarships**

Donors and foundations provide annual funds for special scholarships for upper-classmen. Recipients are recommended by the academic department and approved by the financial aid committee.

**Transfer Scholarship**

Incoming students with 18 or more transferable credits with a cumulative college GPA of at least 3.00 receive the Level I scholarship of \$7000. Those students with a cumulative college GPA of at least 3.50 receive the Level II scholarship of \$8000. Transfer scholarships are renewable as long as the student is maintaining satisfactory progress at WLC.

**WLC Transfer Grant**

A \$5000 grant program for full-time sophomores, juniors, or seniors who transfer with a cumulative college GPA of 2.50 or higher. The Transfer Grant and Transfer Scholarship are mutually exclusive.

**Need-Based Grants**

Grants are based on individual criteria as listed below. WLC grants are awarded to full-time students only.

**WLC Regents Grant**

Grants in varying amounts are reserved for students who demonstrate financial need. The amount may vary from year to year, depending on the federal need analysis.

**WLC Out-of-State Grant**

A grant program established to help full-time non-Wisconsin students who have financial need but are ineligible for any state aid. The grants range from \$400 - \$2900.

**Pell Grant**

A federal grant, the Pell program provides direct grants ranging from \$602 to \$5,730. The grant amount is based on the expected family contribution established by the FAFSA.

**WLC Warrior First Grant**

Grants awarded to first-time, full-time freshmen who are first generation college students and have exceptional need.

**Supplemental Educational Opportunity Grant (SEOG)**

A federal program which provides funds for undergraduate students who are Pell recipients with exceptional financial need.

**Wisconsin Tuition Grant**

This program provides grants to students with financial need who are legal residents of the State of Wisconsin, enrolled at least half time, and have good academic standing. Students are eligible for a maximum of ten semesters. The maximum amount of aid from this program is \$2900 per student.

**Wisconsin Talent Incentive Program (TIP)**

A state grant over and above all other forms of financial aid made to Wisconsin students who demonstrate exceptional need and meet certain state determined criteria.

**Wisconsin Minority Grant Program**

A state grant available to returning upper-classmen who are black, Hispanic, American Indian, Cambodian, Laotian, or Vietnamese; Wisconsin residents; and demonstrate financial need.

**Student Employment**

Student employment falls into two categories: on-campus and off-campus work.

**On-campus Employment.** Students are employed in a variety of jobs on campus. Interested students contact the financial aid office to determine their eligibility for employment. Students are hired under one of the following programs:

**Federal Work Study (FWS):** A federally funded program established to expand part-time employment opportunities for students, particularly those from families with low expected family contributions established by the FAFSA. Only those students with demonstrated financial need are eligible to participate. FWS is considered part of a student's financial aid package, and a student cannot earn more than the dollar amount of his or her FWS award. Students awarded FWS receive priority when filling open positions at the beginning of the academic year. FWS also provides opportunity to work in community service positions.

**Non-Federal Work Study:** Students who are ineligible for FWS receive their hourly wage through college funding.

**Resident Hall Assistants:** Upper-classmen interested in becoming involved in the personal growth experience of other students and leadership development may apply for the position of resident hall assistant. Application is made through the residence life office. Compensation is in the form of free room and board and a small monthly stipend.

**Off-Campus Employment:** Students seeking part-time community employment should check the Library bulletin board for job openings in the area. The college recommends that students limit their employment

to no more than 20 hours per week in deference to academic priorities.

**Loans**

The Federal Direct Loan Program provides low interest loans to students and parents. The lender is the U.S. Department of Education. The program has two main components: Direct Subsidized and Unsubsidized Loans for students and Direct PLUS Loans for parents.

**Direct Subsidized Loans.** Students with demonstrated financial need, as determined by federal regulations. No interest is charged while a student is enrolled at least half-time.

**Direct Unsubsidized Loans.** Not based on financial need; interest is charged during all periods, even during the time a student is in school and during grace and deferment periods.

Students may qualify for a combination of the two Direct Subsidized and Unsubsidized Loans up to the amounts listed.

	All Students Subsidized	Dependent Students Total Direct Loan	Independent Students Total Direct Loan
FR	\$3,500	\$5,500	\$9,500
SO	\$4,500	\$6,500	\$10,500
JR/SR	\$5,500	\$7,500	\$12,500

Dependent undergraduate students may borrow a maximum total loan enrollment of \$31,000 (maximum \$23,000 subsidized). Independent undergraduate students are eligible for a maximum total loan amount of \$57,500 (maximum \$23,000 subsidized).

The interest rate for a 201-15 subsidized loan is a fixed rate of 4.66%. The interest rate for an unsubsidized loan is a fixed rate of 4.66% for undergraduates and 6.21% for graduate students. A 1.072% origination fee is subtracted from the loan amount.

**Direct PLUS Loan.** This program makes loans available to parents of dependent students. These federally insured loans enable parents to borrow the total cost of education, minus other financial aid, for each student who is enrolled at least half time. The interest rate for each PLUS loan is a fixed rate at 7.21%. Origination fees of 4.288% are subtracted from the loan. In conjunction with the Direct PLUS Loan, WLC offers its PLUS Partner Program where WLC pays a portion of the interest while the student is enrolled at WLC.

**Veterans**

Students eligible for educational benefits from the Veterans Administration (VA) should apply for entitlement through their local county veterans' service offices or through any regional office of the VA prior to college registration.

WLC is a participant in the Yellow Ribbon Program. Veterans who receive post 9-11 GI bill benefits and have full tuition and fees covered in addition to a monthly housing allowance will not be eligible for institutional aid.

Students receiving educational benefits from the VA must report immediately any change of program (adds, drops, withdrawal) to the college registrar's office. The VA will be notified of any condition which would affect entitlement such as low grade point average,

change in program, or probationary status.

**Other Financial Assistance**

Other sources of financial aid include the Department of Health and Social Services, private corporations or foundations, and civic organizations which sponsor scholarship programs.

**Satisfactory Academic Progress (SAP) for Financial Aid Recipient**

In accordance with federal regulations, Wisconsin Lutheran College requires that a student be making satisfactory academic progress toward a degree to be eligible for financial aid. Satisfactory academic progress is monitored both by a qualitative standard (GPA) and a quantitative standard (pace by which a student is completing his or her degree). Satisfactory academic progress will be reviewed at the end of each term of attendance including summer.

**Qualitative**

1. A student must have a minimum cumulative grade point average of 2.0 at the end of each term of attendance except the first term of attendance where a 1.75 minimum cumulative GPA is required. Students who do not meet this requirement will be placed on financial aid warning for the next term of attendance.

2. A student on financial aid warning is eligible for financial aid, but the student must reestablish a minimum cumulative GPA by the end of the term. A student who does not reestablish the minimum 2.0 cumulative GPA will be placed on financial aid suspension and will not be eligible for financial aid for the next term of attendance.

**Quantitative**

Federal regulations determine the maximum time frame to complete a degree is within 150% of the length of the degree program. In accordance with this policy, WLC students must successfully complete at least 67% of their cumulative credits attempted.\*

1. A student not meeting the minimum percentage of credits attempted will be placed on financial aid warning for their next term of attendance.

2. A student on financial warning is still eligible for financial aid but the student must complete enough credits to meet the minimum percent by the end of the term. A student who does not complete enough credits to meet the minimum percent during the financial aid warning term will be placed on financial aid suspension and will not be eligible for financial aid for the next term of attendance.

**\*Further Details**

a. A student's enrollment level is determined by what he or she is registered for as of the second Friday of each term.

b. Attempted credits include successfully completed credits (grades A -D), earned F's, incomplete, withdrawal and courses that were grade replaced.

c. Transfer credits accepted from other schools will be counted toward completion of the degree program as both hours attempted and hours completed.

## Appeals

Students may appeal the suspension of their financial aid eligibility. Appeals should be submitted in writing to the financial aid office, addressed to the financial aid director. Students will be able to file an appeal due to extenuating circumstances such as health reasons, injuries, death of a relative, family emergencies or other documented extenuating circumstances. Appeals must include why the student failed to make satisfactory progress and what has changed in the student's situation that will allow them to make satisfactory academic progress at the next evaluation point. Students are limited to two suspension appeal requests throughout their enrollment at WLC.

## Financial Aid Probation

A student whose appeal has been approved will be placed on financial aid probation for the next term of attendance. While on financial aid probation, the student must reestablish a minimum cumulative 2.0 GPA and complete at least 67% of cumulative credits attempted. Failure to do so will result in suspension of financial aid for the next term of attendance and any future terms until SAP standards are met.

## Academic Plan

A student on financial aid probation may have an Academic Plan developed on an individual basis. Plans are developed and monitored by the Dean of Student Success in conjunction with an Academic Dean and the student's academic advisor. An Academic Plan could include certain performance requirements, a limited credit load, only certain courses to be taken, required meetings with an academic advisor, use of the Academic Success Center, or use of Counseling Services. Failure to meet the Academic Plan requirement will result in suspension of financial aid for the next term of attendance.

## Refund and Repayment Policies

Refund and repayment policies apply to a student who withdraws or is terminated during the semester. It does not apply to a student who withdraws from some classes but continues to be enrolled in other classes. A refund is the difference between the amount paid towards institutional charges (including financial aid and/or cash paid) and the amount the school may retain under the appropriate refund policy. Refunds are based on the student's withdrawal date. The refund process begins with the completion of a student withdrawal form with the dean of enrollment services.

## Refunds and the "Return of Title IV Funds"

Wisconsin Lutheran College's Refund Policy exists for calculating the refund of institutional charges. The federal "Return of Title IV Funds" formula dictates the amount of Federal Title IV aid that must be returned to the federal government by the school and the student. The federal formula is applicable to a student receiving a TIP grant or federal aid other than Federal Work Study if that student withdraws on or before the 60% point in time in the semester. The student may also receive a refund of institutional charges through Wisconsin Lutheran College's refund policy. The amount of refund of institutional charges will be the greater of the amount the school must return to federal Title IV programs or the amount determined by Wisconsin Lutheran College's Refund Policy.

Wisconsin Lutheran College's Refund Policy is as follows: Students who withdraw from Wisconsin Lutheran College will receive a prorated refund of educational fees and housing/meal fees, according

to the following schedule:

During first week of classes	90 percent
During second week	80 percent
During third week	60 percent
During fourth week	40 percent
During fifth week	20 percent
After fifth week	none

The federal formula requires a return of Title IV aid if the student received federal financial assistance in the form of a Pell Grant, Supplemental Educational Opportunity Grant, TIP Grant, Direct Loan or PLUS Loan and withdrew on or before completing 60% of the semester. The percentage of Title IV aid to be returned is equal to the number of calendar days remaining in the semester divided by the number of calendar days in the semester. Scheduled breaks of more than four consecutive days are excluded.

If any funds are to be returned after the return of Title IV aid, they will be used to repay Wisconsin Lutheran college funds, state funds, other private sources, and the student in proportion to the amount received from each non-federal source as long as there was no unpaid balance at the time of withdrawal. If there was an unpaid balance, then all aid sources will be repaid before any funds are returned to the student.

Note: If funds are released to a student because of a credit balance on the student's account, then the student may be required to repay some of the federal grants if the student withdraws.

## Allocating Refunds and Repayments

When distributing a refund or repayment, money must first be distributed in the following order as allocated by law. Federal dollars are returned in full up to the amount of the Title IV refund. Remaining monies are pro-rated and allocated among state, private, and institution sources up to the refund percentage.

1. Direct Unsubsidized Loans
2. Direct Subsidized Loans
3. PLUS Loans
4. Federal Pell Grants
5. Federal SEOG
6. Other Title IV Assistance
7. State, Private, or Institutional Aid
8. The Student

The student would receive money only after all financial aid programs have been refunded. Typically, a student who received federal aid does not receive a cash refund. If a student owes unpaid charges to the school, the student's account will automatically be credited with a portion of the student's refund up to the amount owed by the student.

Detailed rules and examples of the refund calculations, as defined by federal statute, are available on request from the financial aid office.

## ADMISSIONS

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### Transfer

Wisconsin Lutheran College accepts transfer credits from accredited institutions on a case by case basis. Although there is no limit to the number of credits which may be transferred, to receive a degree from WLC, transfer students must complete all general education requirements and earn 30 credits in residence, including at least 15 credits of upperdivision courses within the major. Please see the Registrar's Office for detailed transfer credit policies.

Transfer credit is awarded for those courses in which a student receives a grade of C (2.0 on a 4.0 scale) or higher. Appeals may be made after the transfer student has successfully completed at least one semester as a full-time student at Wisconsin Lutheran College. Credits accepted for transfer may be used to satisfy WLC degree requirements. However, only grades earned at WLC will be used in computing the student's cumulative grade point average.

### AP, CLEP, IB Policies

To receive credit for Advanced Placement exams, a student must earn at least a score of 3 or 4 and higher.

To receive credit for CLEP exams, a score of at least 50 or higher is required depending upon the exam. A CLEP exam will not be accepted for credit if it is taken after a higher level course has already been taken in the same discipline.

To receive credit for International Baccalaureate (IB), a student must earn a score of 5 or higher on the higher level exams.

A total of 30 credits may be earned through AP, CLEP, and IB.

Please see the Registrar's Office for specific score minimums and requirements..

### Retroactive Credits

Students may receive retroactive credits in foreign language and calculus if a grade of "B" or better is earned at WLC in a higher level course. For specific policies, please see the Registrar's Office.

### Readmission

Students who honorably withdrew from the college may submit a Special Admission Application form to the director of admissions. Application forms are available from the admissions office and should be completed at least three weeks prior to registration.

Students seeking readmission after academic suspension may apply for readmission after the lapse of two semesters. Their applications will be reviewed by the Academic Cabinet, and they must complete an interview with a college dean before the application is accepted. Upon readmission the student's previous work shall remain as part of the official academic record, but the academic standing will be determined only on the basis of the credits attempted and grade points earned at Wisconsin Lutheran College following readmission. Students should be aware that employers, graduate schools, and

accrediting agencies may evaluate their entire academic record.

### International Students

Applicants for undergraduate admission should contact the office of international admissions for information and assistance. Three general criteria are considered

- High academic ability
- Positive personal recommendation
- Demonstrated English language ability

International applicants can meet these criteria by providing the following evidence:

- WLC international application for admission and \$35 fee
- Letter of recommendation
- Secondary school academic records (SAT or ACT scores may be required)
- English proficiency as demonstrated by a minimum TOEFL (Test of English as a Foreign Language) score of:
  - 550 (paper)
  - 213 (computer-based)
  - 79 (Internet-based), or
  - IELTS score of 6.5
- Financial Affidavit of Support (included with an official bank statement)

Candidates with scores below the minimum may need to complete an ESL program as a condition of acceptance to WLC.

All non-English documents must be accompanied by official English language translations.

The college will issue a student a Form I-20 (Certificate of Eligibility for Non-Immigrant [F-1] Student visa), when the student is admitted, demonstrates proof of financial resources for the first year, and after the deposit for an academic year is paid.

### Early Admission Program

The Wisconsin Lutheran College Early Admission Program has been established to permit high school students to enhance their educational experience prior to college. Through this program qualified students may enroll in WLC courses concurrent with their high school program.

To qualify for participation in the Early Admission Program, a student must have completed all requirements for the junior year of high school. Wisconsin Lutheran College is a registered participant in the State of Wisconsin's Youth Options Program whereby high school seniors may enroll in college courses. Either all or part of the tuition is paid for by the local school district.

Application Procedures: The student must provide the admissions office with the following credentials:

1. The completed "Special Admission Application" and the application fee
2. Transcript of high school credits
3. Recommendation from the high school principal or counselor

## Concurrent Enrollment

Concurrent enrollment may assume one of two forms:

- A. A student enrolled in a degree program at another college may apply for admission to Wisconsin Lutheran College as a special student. Registration normally is limited to one or two courses per semester with the intent of transferring the credits to the degree program at the other institution.
- B. A student enrolled in a degree program at Wisconsin Lutheran College may apply to the Registrar's Office for approval to enroll concurrently at another college with the intent of transferring the non-resident credits toward a Wisconsin Lutheran College degree.

## Four Year Guarantee

Wisconsin Lutheran College is committed to providing a quality, Christian-based, undergraduate education within the traditional four-year timeframe. Therefore, Wisconsin Lutheran College guarantees that a student who enters as a first-time freshman and enrolls in an average of 16 credits per semester, does not fail or withdraw from any courses, and maintains a 2.50 cumulative grade point average will graduate in four years.

If a student who qualifies for this guarantee does not complete his or her degree requirements in four years, Wisconsin Lutheran College will waive that student's tuition for the courses needed to complete his or her degree requirements.

Additional provisions:

1. A student must select a major prior to registration for his or her fifth semester of study to qualify.
2. A student who elects more than one major or minor does not qualify.
3. A student who, because of a change of major, is required to go beyond four years to meet his or her degree requirements does not qualify.
4. A student enrolled in a program such as Education who must take additional semester(s) to meet certification requirements does not qualify.
5. A student who elects to pursue a minor or a pre-professional track (such as pre-med) should do so carefully in order to complete his or her programs within four years.

To exercise the guarantee, the student must be approved for the guarantee by the Registrar and apply for financial aid. Any portion of tuition not covered by federal or state gift assistance will be waived by the College.

## ACADEMIC POLICIES

### Credit System

A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally-established equivalency that reasonably approximates

not less than one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for an approximately fifteen week semester. A class hour at Wisconsin Lutheran College is currently defined as 50 minutes per week based upon an approximate semester length of fifteen weeks or the equivalent amount of work over a different amount of time.

### Credit Load and Overload Approval

The academic load necessary to meet graduation requirements in eight semesters is 16 credits per semester. A full-time student must carry a minimum of 12 credits per semester. A student who wishes to carry more than 18 credits in academic courses per semester must have written permission from a college dean. To be approved for an overload, students must successfully demonstrate a need for approval and have a minimum 3.00 Cumulative GPA.

### Audit

To enrich their educational experience, students are welcome to audit classes that might interest them. Students auditing courses are not required to fulfill any class requirements other than attendance. Auditors are not graded and do not receive course credits. Credit-earning students are the first admitted to a course. Admittance of auditors is subject to the availability of room in the class and approval of the instructor.

A full-time student may audit a class as part of the regular class load without paying additional tuition and fees (except special class fees). However, audited courses do not count toward certification of full-time attendance for social security or Veterans Administration benefits. Part-time students and special students may audit classes by paying special class fees and per credit fees.

### Registration, Add/Drop, Withdrawal

The college calendar specifies registration dates. A student may make a change in course registration after the official period of course registration and through the published add/drop period of the new semester with the approval of his or her advisor, the faculty member, a college dean, and the registrar. For full semester length courses, the last day for changes in course registration is the Friday of the second week of the semester. For half semester courses, the last day for changes in courses registration is one week from the start of the class.

After the second week and before the end of the tenth week of the semester, withdrawal from a course will be permitted with the approval of a student's advisor and a college dean. For such courses his or her record will show a W (withdrawal). The W will not be counted in computing his or her grade point average.

### Administrative Withdrawal

Students may be administratively withdrawn from a course (face-to-face, hybrid, or online) at the request of a faculty member due to (1) failure to adhere to the course attendance policy as described in the course syllabus or (2) disruptive classroom behavior. The faculty member will make the request for administrative withdrawal, in writing, to the appropriate college dean. If, upon reviewing the case, the college dean decides that an administrative withdrawal is the appropriate course of action, he/she will inform the student, the

faculty member, and the Registrar of that decision.

Students should be aware that administrative withdrawal may have academic, financial, and financial aid implications. Administrative withdrawal will take place after the full refund period, and students that are administratively withdrawn from a course will not be eligible for a tuition refund. Administrative withdrawal from any course automatically voids the 4 year graduation guarantee.

### Grades and Grade Points

The following letter grades, their equivalents in achievement, and grade points per semester hour of credit are used by instructors to evaluate a student’s performance in a course.

<i>Grade</i>	<i>Achievement</i>	<i>Grade Points</i>
A	Superior	4.0
AB		3.5
B	Good	3.0
BC		2.5
C	Satisfactory	2.0
CD		1.5
D	Minimum passing	1.0
F	Failing	0.0
P	Pass	
W	Withdrawal	
I	Incomplete	
AU	Audit	

The grade points are used to compute the cumulative grade point average (GPA), a measure of the student’s overall performance. The GPA is computed by dividing the sum of all grade points by the total credits attempted. Thus, a grade point average of two (2.00) indicates the equivalent of an average of C in all courses. The grades W, I, and the grades for transfer credits are not used in computing the cumulative GPA.

### Procedure for Requesting Change in Final Course Grade

Any student may, at any time, consult the instructor about the grades he or she receives for the work he or she has done. However, when the FINAL grade assigned in a course is contested, then the following course of action must be followed. This action is initiated no later than the calendar date fixed for the removal of the “I” (incomplete) grades of the semester or summer session in which the grade was assigned.

1. The student will first consult with the instructor to determine the reasons for the grade. If there are circumstances that make this step

impossible, then the student should consult with the instructor’s school chair. If the instructor is the school chair, the student should consult with the college dean.

2. When a student is not satisfied with the reasons given by the instructor, then the student must present his or her case, in writing, to the instructor’s school chair. Supporting documentation should include individual grades, course syllabus, grading policy, originals of any graded work and a copy of the student’s final exam. These should be obtained from the faculty member by the school chair if not in the possession of the student.
3. If after examining the student’s request and consulting with the instructor the school chair finds no grounds for a change in grade, he will, within 30 days, inform the student in writing that no further investigation or action will be undertaken. At this point the student may appeal to the college dean, who will decide if there is sufficient cause for an appeal. If the school chair determines that the request for changing the final course grade has sufficient justification, the school chair shall request that the instructor change the grade. If the instructor refuses, the school chair shall refer the matter to the college dean.
4. If the college dean determines that there is sufficient cause for an appeal he will instruct the Appeals Committee of the Academic Council to review the case. Consistent with the college grievance procedures (Faculty Handbook, 4.4.3), students have the right to appeal to the Academic Cabinet. Every effort will be made to maintain strict confidentiality.
5. The Academic Cabinet may proceed from written evidence. It may also consult the instructor and/or student in its review. The Academic Cabinet will also have the right to request input from the instructor and/or the student. Both the instructor and the student have the right to provide input to the Academic Cabinet for review. The Academic Cabinet will also have the right to seek to establish facts about grading practices from other students who took the course at the same time. The student and/or instructor may bring in his or her own witnesses in support of their case.
6. After completing its review, the Academic Cabinet will decide either that the grade assigned will stand, or the grade will be changed to reflect what the committee has arrived at in its investigation.
7. If the Academic Cabinet recommends a change in the grade, the instructor shall be asked to make the change. If the instructor refuses, the college dean shall make the change with the provision that the instructor can provide a dissenting opinion as part of the permanent record of the Academic Cabinet. Decisions of the Academic Cabinet are final.

### Incompletes

A grade of I (incomplete) indicates that the student’s work in a course is incomplete and that the student has obtained the instructor’s permission to complete the course. An incomplete normally is assigned only when illness or other extenuating circumstances have

prevented the student from fulfilling the requirements of the course.

A course marked incomplete must be completed within 90 days of the end of the semester in which the incomplete was assigned. If the course is not completed, the grade automatically becomes an F. A student does not remove an incomplete by registering for the same course in a subsequent semester. If a student receives an incomplete in a course that is a prerequisite for a following course, approval to register for the course must be obtained from the instructor.

In order to remove an I (incomplete), the student must make arrangements with the instructor for the satisfactory completion of the work remaining to be done in the course. When the work is completed, the instructor will report the removal of the incomplete to the registrar. It is the responsibility of the student to make these arrangements.

### Academic Honors

Honors for academic achievement are awarded to full-time students at the end of each semester through publication of the dean's list. To qualify for the dean's list, a student must earn at least a 3.60 grade point average.

Honors will be verbally bestowed upon graduating students who qualify for the appropriate honor based on the cumulative GPA. Students who earn at least 60 credits at Wisconsin Lutheran College qualify for Latin honors. Students who earn 48-59 credits at Wisconsin Lutheran College and receive at least a 3.60 cumulative grade point average will graduate with distinction. Latin honors are as follows:

Summa Cum Laude:	3.90 - 4.00
Magna Cum Laude:	3.75 - 3.89
Cum Laude:	3.60 - 3.74

### Classification of Students

Students are classified by the following credit scale:

Freshman = earned less than 30 credits
Sophomore = earned at least 30 credits
Junior = earned at least 60 credits
Senior = earned at least 92 credits
Special = students who are non-degree seeking

### Academic Status

To remain in good academic standing, students must maintain the following cumulative grade point averages:

1. After the First Semester of Enrollment	1.75 CGPA
2. All Semesters thereafter	2.00 CGPA

### Academic Probation

A student whose cumulative grade point average is below the minimum standard is normally placed on an academic status of probation. A student placed on probation must normally reduce his or her semester academic load to a maximum of 13 credits and hours of employment to a maximum of 13 hours per week. A student on probation must attain an academic status of "good standing" by the

end of his or her semester on probation. Normally, if a student fails to attain this status, he or she will be academically suspended.

A student also may be placed on probation for any of the following reasons:

1. A student who is readmitted after an academic suspension will be placed on probation.
2. A student who has demonstrated a lack of progress toward a degree evident by a continual decline in their CGPA.

### Academic Suspension

Students will be suspended for academic reasons if after being placed upon academic probation fail to reach the required minimum requirements for academic good standing. Students may also be academically suspended if they fail to demonstrate adequate academic progress as evident by their semester and/or cumulative GPA. Normally, students who are suspended for academic reasons may not apply for readmission until two semesters have elapsed.

A student whose academic performance for the semester of probation is considerably above the minimum GPA requirements, but whose cumulative GPA remains below the minimum requirement may appeal to the academic dean to continue his or her studies. The Academic Cabinet will determine if the student may return and the academic status under which such a return should be made.

### Eligibility

Because the college views the academic program and the development of Christian character and responsibility as priorities deserving first attention, eligibility for participation in college-sponsored cocurricular activities requires that a student maintain an academic status of good standing. Participation in interscholastic activities also may be negated by disciplinary probation. Athletic eligibility is also governed by the NCAA and the Northern Athletics Conference.

First-year students: During the student's first term, each first-year student-athlete must be enrolled as a full-time student. At the beginning of the succeeding term, each student must have passed 9 semester hours or its equivalent of the first term's work as defined by current NCAA rules.

Minimum Grade Point Average. The following scale of grade point averages (GPA) shall be required of all student athletes representing Conference schools in intercollegiate competition, and is based on a 4.00 scale:

1) After first term of enrollment.	1.75 CGPA or higher
2) Every term thereafter	2.00 CGPA or higher

Student-athletes must also earn at least 24 credits in the previous two full-time terms of attendance to be eligible to participate.

### Repeating Courses

Students may repeat for credit any course in which a grade was received. If a grade of F (failing) is received in a course needed to

satisfy degree requirements, the course must be repeated.

In repeated courses only the highest grade is used in computing the grade point average. Students should be aware, however, that all grades are included on transcripts sent to other colleges, universities, and graduate schools, and these institutions may, according to their transfer and admission policies, compute grade point averages based on all grades.

### **Class Attendance**

The college expects students to attend all class sessions. Early departures and late returns at vacation times are not to be requested. College policy permits each instructor to establish the specific details of class attendance for each particular class.

Students involved in athletics or other off-campus activities sponsored by the college are required to make arrangements in advance with the instructor for each class missed.

### **Assessment of Academic Outcomes**

Admission to Wisconsin Lutheran College implies each student's willingness to participate in the various efforts of the college to assess the effectiveness of its academic programs. Such efforts include entry-level tests and assessments for beginning freshmen, the comprehensive assessment day held in April of each year, as well as other formal and informal assessments conducted by academic departments. Conducting regular assessment of the academic outcomes of its students allows the college to continuously monitor its effectiveness and implement changes for improvement.

### **Professor's Absence**

If a professor is unable to hold a scheduled class, an announcement will be made prior to class. Absence due to illness or emergency will be posted in the administration building, the library, and on the classroom door. If a professor has not appeared in his/her classroom within twenty (20) minutes after the scheduled beginning of class, students may assume that class period is canceled and notify the Executive Assistant to the Provost.

### **Vacation**

Students must complete class requirements before a vacation period begins. Transportation arrangements, especially for Christmas and spring breaks, should be made well in advance. The residence halls will be locked and the dining area closed for Christmas and spring vacations.

### **Academic Progress Reports**

Aside from official grade reports issued at the end of each semester, the college provides numerous informal reports of academic progress to students and their advisors. In the fourth and eleventh weeks of each semester, an academic progress report form is submitted by faculty to the academic dean's office identifying students who are experiencing lack of success or exhibiting behaviors which have the potential to impede satisfactory progress. At the mid-term of each semester, an unofficial grade report is issued to students and their advisors which demonstrates the student's grade status after seven weeks of study. These various reports are intended to provide

opportunities for students to work with their advisors to improve their chances for success.

### **Academic Advising**

Through a strong advising system, the college assists students in making informed curricular and career decisions. This advising system begins with the Freshman Mentoring Program. All first-time, full-time freshmen are assigned a mentor who is also the teacher of the required COL 101 Freshman Seminar. Students meet weekly with their mentor to discuss a wide range of topics intended to provide extended orientation to the college, self-analysis, career exploration, academic planning, and personal development.

Students are eligible to apply for a faculty advisor in their chosen major at the beginning of their sophomore year. This advisor will work with the student to plan the remainder of their course of study, to assist the student in finalizing career plans, to explore graduate school options if appropriate, and in general to oversee the student's progress toward degree completion.

### **Academic Grievance**

In a caring Christian community, mutual respect between teachers and students as fellow redeemed children of God dictates an orderly and God-pleasing approach to resolving any grievance. Grievances of an academic nature should, whenever possible, be handled between the principals involved. This initial step is in line with the guide given us by Christ in Matthew 18. Grievances that cannot be settled at the first level may, after consultation with the advisor, be appealed in writing to the academic dean. If this second step still does not resolve the grievance, the student may appeal in writing to the Academic Cabinet. The above grievance procedure shall also apply in the case of a student's concern with a faculty member's alleged violation of professional ethics.

### **Academic Ethics**

Faculty members will notify their students of their individual standards and expectations regarding classroom conduct, attendance, testing, and grading. The guide of God's law in maintaining ethical standards of honesty and integrity applies to students, faculty, and staff.

### **Violation of the Code of Ethics**

The following are considered violations of the academic ethics code:

1. Plagiarizing
2. Possessing, obtaining, or sharing unauthorized information prior to, or during, an examination
3. Resubmitting work for more than one course without the instructor's approval
4. All deceitful or dishonest activity

Penalties for violation of the ethics code will include a minimum of failure on the academic project involved and a written reprimand. Copies of the reprimand will be given to the student's advisor and the academic dean. Extra course work, reduction of the course grade,



failure of the course, and expulsion from the college are potential penalties for code violation.

### Withdrawal from the College

A student who voluntarily wishes to withdraw from the college must contact the dean of enrollment services to discuss procedures. Students are granted an honorable withdrawal from the college provided they have an academic status of good standing and have cleared all obligations (tuition and all other financial obligations) to the college according to the established procedures for withdrawal. Students who honorably withdraw before the end of the semester will be assigned a grade of W for each course in which they are enrolled. Students who voluntarily leave the college before the end of the semester without completing the prescribed withdrawal procedures will be considered as still registered and will receive a grade of F (failing) for each course in which they are enrolled.

### Commencement Participation

Commencement exercises are held at the end of the fall and spring semesters. A student is eligible to participate in commencement only once. In order to be eligible to participate in a commencement exercise, students must be registered to complete by the end of the same semester all the necessary remaining degree requirements. Education majors who will have met all degree requirements except the student teaching practicum may participate in the May commencement prior to student teaching in the fall semester.

### Graduation

A one-time graduation fee of \$75.00 will be charged on all accounts of ALL students scheduled to graduate, regardless of whether or not they plan to participate in the commencement ceremony. This charge will appear on their student tuition account upon submission of an application for degree. This fee will cover the cost of the cap and gown (announcements sold separately), diploma cover and printing expenses, a transcript, ceremony expenses, etc.

## ACADEMIC PROGRAM

Wisconsin Lutheran College strives to develop in each student a Christian mind and a servant's heart that will allow him or her to excel in the world of ideas and in relationships with people. Each graduate will be committed to humble and responsible service through independent and creative thought and will use research and analytical skills to make critical judgments.

### The Academic Goals of Wisconsin Lutheran College

The faculty of Wisconsin Lutheran College believes that a Christian undergraduate education based on scholarly activity, engagement with the liberal arts, and practical application of knowledge enlarges students' perspectives and prepares them for the various vocations in which God places them. Consequently, graduates of Wisconsin Lutheran College will:

### AG1: Articulate a world-view based on Holy Scripture, as interpreted by the Lutheran Confessions.

Students at a Christian institution of higher learning have the unique opportunity of learning to view the wonder and order of the universe as part of God's creation. This coherent perspective of the world is based on an understanding of the biblical narrative, systems of doctrine, church history, and Christian vocation through the hermeneutical lens of the Lutheran Confessions. Students are thus enabled to comprehend synoptically the diversity of information to which they are exposed, as they effectively and faithfully carry out their roles in the church and society.

### AG2: Think critically, clearly, and accurately in the pursuit of Truth.

Because students are exposed to a wide variety of social institutions, historical perspectives, manifestations of culture, and systems of belief, as well as the means by which people express themselves in these contexts, a comprehensive Christian education equips students to evaluate wisely and discriminate among the varied perspectives they encounter. The breadth and depth of knowledge they have gained in a variety of disciplines allows students to inquire with discernment and to reason validly. Moreover, the empirical skills they acquire allow them to engage with the structure, forces, and systems of God's creation and relate scientific concepts to the phenomena of the physical universe.

### AG3: Express themselves with grace and precision in a variety of contexts.

A comprehensive Christian education fosters students' ability to listen, speak, and write respectfully, critically, and effectively. It also nurtures their ability to reason and express observed relationships in numeric, symbolic, and graphic forms, while at the same time integrating appropriate technologies into their studies. In order to communicate with integrity from a global perspective, students will develop a facility with the elements, structure, and cultural context of a foreign language. Finally, their exposure to the arts and humanities stimulates students' willingness to depict ideas and emotions creatively in verbal, visual, and musical forms.

## GENERAL EDUCATION

### I. CORE CURRICULUM

#### A. Common Courses

1. Writing. ENG 101 with a grade of C or better.
2. Speaking. COM 101 with a grade of C or better.
3. College Seminar: COL 101 and COL 201.

#### B. Theology

1. One course from THE 100, 105, and 110.
2. One additional course in Biblical Theology (THE 120, 130 or 300 level).

3. One Course in Systematic Theology (THE 401, 402, 411, 412, 441, 451 and 461).

4. One elective course in Theology.

C. Humanities

1. One literature course from the English Department.
2. One three credit course from Art, Music, or Theatre.
3. Additional three credits from Art, English, Music, Philosophy, Theatre, Theology, German (201 or above), Mandarin (201 or above), or Spanish (201 or above).

D. Social Sciences

1. One course from the History Department
2. Additional six credits from: Anthropology (181, 201, 301, or 320), Business, Communication, Education, History, Political Science, Psychology, or Sociology.

E. Science and Mathematics

1. For the Bachelor of Arts:
  - a. One course from: MAT 116, 117, or 210 or higher.
  - b. One laboratory science course.
  - c. One additional course from Anthropology (203), Biology, Chemistry, Computer Science, Earth-Space Science, Physics, GEO 125, MAT 116, 117, or 210 or higher.
1. For the Bachelor of Science/Nursing:
  - a. One course from: MAT 117, or 210 or higher.
  - b. Two laboratory science courses.
  - c. One additional course from Anthropology (203), Biology, Chemistry, Computer Science, Earth-Space Science, Physics, MAT 117, or 210 or higher.

F. Physical Education

1. One credit from courses numbered PED 101-199.

G. Foreign Language

1. For the BA: three units in a recognized foreign language, two must be sequential from the same language.
2. For the BS and BSN: two sequential units in a recognized foreign language.

NOTE: A unit is either one year of high school study or one semester of college study. Placement recommended by test and high school performance.

**Honors Program**

Students part of the Honors Program will complete a separate General Education curriculum consisting of the following courses:

- |                     |         |
|---------------------|---------|
| HON 101             | HON 103 |
| HON 201             | HON 203 |
| HON 401             | HON 403 |
| HON 491 (2 courses) |         |

In addition to the Honors courses, students must complete the following:

Foreign Study experience or 12 credits of one foreign language

at WLC

- One Biblical Theology course
- One Systematic Theology course
- One Lab Science course
- Demonstration of Math competency through MAT 221

For more information, please see page 48.

**Major Requirements**

Students may declare a major upon completion of one year of full-time study or 32 credits as a part-time student. This procedure is begun by making an appointment with the student's advisor to complete an Application for Declaration of a Major. This application is forwarded by the Registrar to a faculty member in the major department for which admission is being sought. The department reviews the academic record of the applicant to determine aptitude for success in the major. Upon approval by the department, the student is assigned to an advisor in the major department. In an effort to ensure students are making adequate progress toward graduation, students must have a declared major on file in the Registrar's office by March 31st of their second year of study at WLC. Failure to address this requirement will prevent registration for the subsequent fall semester and require that the student meets with one of the academic deans before the registration hold can be lifted. For all majors, students must complete at least 15 credits in residence in upper-division courses (numbered 300 or above) in the major. To have a major approved for graduation, a student must attain at least a minimum cumulative grade point average of 2.50 in courses selected by the student to satisfy the major. Credits used to satisfy the major may also be used to satisfy general degree requirements. Collateral requirements do not count towards major grade point average or the total credits required in a major.

Students who desire to have multiple major(s)/minor(s) must meet the following requirements:

1. A student pursuing a double major must accumulate 72 total distinct credits to satisfy the combined requirements of both majors.
2. A student pursuing a major and a minor must accumulate 57 total distinct credits to satisfy the combined major/minor requirements.
3. A student pursuing two minors must accumulate 42 total distinct credits to satisfy the combined requirements of both minors.
4. A student pursuing any additional major must accumulate an additional 36 distinct credits used to satisfy the additional major requirements.
5. A student pursuing any additional minor must accumulate an additional 21 distinct credits used to satisfy the additional minor requirements.

**CREDIT REQUIREMENTS**

At least 128 degree credits are required for the bachelor's degree, including at least 36 credits in upper-division courses. There is no limit to the number of credits which may be taken in one department. A minimum of 30 credits must be earned in residence to receive a bachelor's degree from Wisconsin Lutheran College.

## PROGRAMS OF STUDY

Wisconsin Lutheran College offers majors in art, biochemistry, biology, business administration, chemistry, china studies, communication, education, English, German, history, mathematics, media design, music, nursing, Spanish, philosophy, psychology, theology, theatre, and interdisciplinary majors in communicative arts, broad field social sciences, environmental science, environmental studies, and human social services. Minors are available in these as well as other areas. Those majors and minors which are marked by an asterisk (\*) are approved by the Wisconsin Department of Public Instruction for teaching at the middle and secondary levels. Students interested in teaching in one or more of these areas should contact the director of teacher education. Following are the areas of study available at Wisconsin Lutheran College:

Art*	English*
Biology*	German*
Biochemistry	History*
Biological Anthropology	Human Social Services
Broad Field Social Sciences*	Interdisciplinary Studies
Broad Field Language Arts*	Marine Biology
Business Administration	Mathematics*
Chemistry*	Media Design
China Studies	Music*
Coaching*	Nursing
Communication*	Philosophy
Communicative Arts	Physics
Computer Science	Psychology*
Digital Cinema and Media	Spanish*
Early Childhood Education*	Special Education*
Elementary Education*	Sport and Exercise Sci
Education*	Theatre*
Environmental Science	Theology
Environmental Studies	

### Interdisciplinary Self-Designed Major

Students wishing to explore courses of study not offered by individual departments or by existing interdisciplinary majors may seek to construct a self-designed, interdisciplinary major built around a coherent theme or problem. This opportunity is available to highly motivated students with broad academic interests and the strong desire to seriously pursue an area of study not covered by existing majors. Students interested in developing a self-designed major should review the academic policy which regulates this major (see INT in the academic programs section of this catalog) and then consult with the academic dean.

### General Course Information

Numbering. Courses are numbered according to level of difficulty based upon prior preparation and knowledge expected. The 100-level courses require the least in the way of prior preparation, whereas 300- and 400-level courses require the most.

Credit. All offerings carry a specified credit load. One unit of credit is considered the equivalent of 750 instructional minutes per semester.

Prerequisites. These are listed at the end of the course description

where applicable. Waiver of the prerequisite can be given only by the instructor in charge of the course.

### Internships

All internships are numbered 490 and are arranged with the Director of Internships with approval from the student's major advisor. Students wishing to complete an internship for academic credit must:

1. Have earned a minimum of 60 credits.
2. Have a 2.25 cumulative GPA.
3. Be officially accepted into a major
4. Complete all academic requirements as outlined in the *Internship Policies and Procedures* document, which can be obtained from the Director of Internships.

In addition, students must complete a minimum of 45 hours on site per credit:

- 1 credit = 45 hours
- 2 credits = 90 hours
- 3 credits = 135 hours

A maximum of 3 credits may be applied to a major, unless otherwise specified. A maximum of 6 internship credits may be applied to the 128 total credit requirement with a maximum of 12 credits awarded on the transcript.

### Independent Studies

These courses are all numbered X99 with the first number representing the level of work being completed. Independent Studies are to be arranged with a full-time professor. Students will need to complete an Independent Study Application and have it approved by the supervising instructor, the appropriate School Chair and the appropriate academic Dean before it will be added to their academic record.

## ANTHROPOLOGY (ANT)

Students of biological anthropology study the relationship between human biology, the environment, and culture. The core coursework required for a degree in this field, builds upon a student's understanding of the biogeography of the planet, the global climate, global geology, and gross human anatomy. Through a variety of classroom, laboratory, and field experiences, Wisconsin Lutheran College students gather the knowledge they need to evaluate important prehistoric and historic ecological events, and their relationship with human biology and culture.

Students with degrees in biological anthropology have historically worked in areas of nutrition, biostatistics, archaeology, museum studies, and forensics. Those students wishing to pursue a degree of higher education beyond their undergraduate training may choose graduate-level programs in forensic science, bioarchaeology, criminology, and/or culture resource management.

### Course of Study

- A. The Biological Anthropology Major consists of a minimum of 40 credits including:

1. Core: ANT 181, 201, 202, 203, 495, BIO 201, 202, 225, and ENG 330.
2. Electives: At least 12 credits from one of three interest areas.
  - a. Applied Anthropology: ANT 301, 320, 350, 493, SOC 220, 310.
  - b. Bioarchaeology: ANT 303, 493, BIO 240, 255, 265, 355, 372, 380, 455.
  - c. Forensic Anthropology: ANT 303, 493, BIO 323, 332, 341, 355, 360, 433, SOC 250.
- B. A minor in anthropology consists of a minimum of 21 credits from the following course offerings:
  1. Core: ANT 181, 201, 202, and 203.
  2. Electives: At least 6 credits in a topic area (see major interest areas).
  3. Elective: At least 3 credits from 490, 491, or 493

## Course Descriptions

### ANT 181 Introduction to Anthropology. 3 cr.

This course is a general overview of the four subfields of anthropology: physical, linguistic, cultural, and archeology. Human origins, the culture-language relationship, and past cultures will be considered from a Christian perspective.

### ANT 201 Cultural Anthropology. 3 cr.

A course which surveys the development and nature of cultural systems. It examines the social patterns, processes, and variations related to culture. The comparative study of cultures world-wide includes analysis of language, art, family life, religion, economic and political areas.

### ANT 202 Principles of Physical Anthropology. 4 cr.

This course is designed to introduce students to the history of thought and the research fundamentals of physical anthropology. Human skeletal and modern biological evidences will be discussed; particular emphasis will be given to the methods and techniques of analysis. 3 hr lecture, 2 hr lab.

### ANT 203 Introduction to Archaeology. 3 cr.

This course introduces students to the history of archaeology. It covers general archaeological method and theory and provides overviews of archeological investigations in North America.

### ANT 301 Peoples and Cultures of Selected World Areas. 3 cr.

A comparative, descriptive, and analytic study of a major cultural area of the world. Areas may be selected from : South & Central America, the Pacific, the Caribbean, Sub-Saharan Africa, Southeast Asia, or the Middle East. A student may repeat the course provided a different area is being covered. Prereq: ANT 201

### ANT 303 Death and Archeology. 3 cr.

This course introduces students to mortuary rituals and the methods of mortuary archaeologists. Topics will include: applications for human osteology, forensic analyses, bioarchaeology, and mortuary ritual. Prereq: Sophomore standing.

### ANT 320 Globalization. 3 cr.

This course examines the definition, trends, and impact of globalization as they relate to culture. Issues such as world debt, global pressures on the environment, the role of multinational corporations, the difference between rich and poor nations (North and South), and the rapid transfer of technologies and information around the world are discussed and debated. Prereq: sophomore standing.

### ANT 350 Primatology. 3 cr.

This course introduces students to a specialty within physical anthropology. A general overview will be made of the biological species comprising the Order *Primates*. Topics will include: biological development and growth, social organization, current research and ecology. Prereq: sophomore standing.

### ANT 493 Practicum in Anthropology. 3 cr.

A practicum in anthropology may be conducted within a variety of field and work-site environments. For students currently enrolled in anthropological coursework at WLC, practicum placements would be built upon specific areas of interest and academic success. Potential sites would include: offices of cultural resource management, local law enforcement agencies, offices of medical examiners, archaeological contract companies, and primate conservation organizations. Maximum of three credits can be applied to major. Prereq: 9 credits in ANT courses and junior standing.

### ANT 495 Senior Thesis and Seminar. 3 cr.

This course is an academic and professional experience within the research area that is of academic and career interest. The final project for this course will be a student thesis and defense. Prereq: declared ANT major and senior standing.

### ANT 490 Internship. 1-3 cr.

By arrangement with department.

### ANT x91 Special Topics in Anthropology. 1-3 cr.

An intensive study and discussion of selected topics in anthropology. Possible topics include archaeology and death, cultural ecology, historical archaeology, primates, and ethnographic research. May be repeated with change of topic. Prereq: varies with topics.

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## ART (ART)

The art department offers all students the opportunity to develop their individual skills of visual expression through personalized guidance and professional training. All students are encouraged to participate in the creative experience and develop their God-given talents as a means to discover the wonders of God's visible creation.

Art courses are designed to promote aesthetic literacy, visual thinking, technical proficiency, creative expression, and critical analysis. The course of study is designed to prepare competent visual communicators for life, work in professional art fields, and continued education. Field trips, gallery tours, guest artists and visiting professionals are incorporated into courses to enhance the learning experience.

## Course of Study

- A. The Art Major consists of a minimum of 40 credits including:
1. Art Foundations (12 cr): ART 101, 102, 121, and 122.
  2. Art Appreciation (9 cr): ART 211, 212 and either ART 213, 306, 307, or 400.
  3. Art Studio (15 cr): Choose from any studio art courses.
  4. Portfolio (1 cr): ART 497.
  5. Cultural Enrichment (3 cr): One three credit course in a fine arts discipline outside the art major, including music, theatre, film, or dance.
- B. The Art Minor consists of a minimum of 24 credits including:
1. Art Foundations (12 cr): ART 101, 102, 121, and 122.
  2. Art Appreciation (3 cr): ART 211 or 212.
  3. Art Studio (6 cr): in either 2-D or 3-D.
  4. Cultural Enrichment (3 cr): One three credit course in a fine arts discipline outside the art major, including music, theatre, film, or dance.
- C. All majors in art are required to exhibit selected works from their studies under the review and approval of art department faculty.

## Course Descriptions

### *Art Foundations*

#### **ART 101 Drawing 1. 3 cr.**

A variety of drawing media will be explored to develop basic drawing skills that enable students to interpret form and sharpen their sense of sight.

#### **ART 102 Drawing 2. 3 cr.**

Continuing study and exercise relating to drawing as an art form. A broad spectrum of techniques will enable students to explore visual avenues of communication and self-expression. Prereq: ART 101.

#### **ART 121 Design Fundamentals: 2-D Design. 3 cr.**

A study and exploration of the elements and principles of design and their application to the designing process, basic to all art fields. Creative design experiences will explore a variety of 2-D media.

#### **ART 122 Design Fundamentals: 3-D Design. 3 cr.**

A study and exploration of the principles of design as applied to three-dimensional form and space. Emphasis will be on translating conceptual elements to construction through the application of various materials.

### *Art Appreciation*

#### **ART 111 Introduction to Visual Art. 3 cr.**

This lecture course is an introduction to the vocabulary, processes, and history of the visual arts in human culture. Analysis, understanding, and appreciation are emphasized. Recommended for General Education requirements and not recommended for Art or Art Education majors.

#### **ART 211 History of Art 1 (Ancient to 1500 AD). 3 cr.**

A study of ancient and medieval architecture, painting, and sculpture with examination of the cultural context in which the great art of

Egypt, Greece, Rome, and the Christian West developed. Includes museum visits and church tours.

#### **ART 212 History of Art 2 (1500 to 1945). 3 cr.**

A study of the development of European painting, sculpture, and architecture and the representative masters from the Renaissance through 1945. Includes museum visits and gallery experiences.

#### **ART 213 History of Art 3 (1945 to present). 3 cr.**

An analysis of the artistic directions from 1945 to the present. Prereq: ART 211 or ART 212.

#### **ART 306 American Art. 3 cr.**

A study of American art and architecture from the first settlers to significant masters of the modern day. Course will include museum visits.

#### **ART 307 Non-Western Art. 3 cr.**

A survey of the artwork of African, South American, Native American, Asian, Pacific, Caribbean, and Australian peoples in context with each culture's traditions and beliefs. Course includes museum visits.

#### **ART 400 Contemporary Trends. 3 cr.**

An analysis of artistic directions in current times. Course includes readings of contemporary criticism and theories, discussions, presentations, written responses, and various gallery experiences. Prereq: Sophomore standing.

### *Art Studio*

#### **ART 201 Painting 1. 3 cr.**

A studio course applying the principles of painting in acrylic and oil. Students will apply their understanding of color theory and technical avenues necessary to describe forms and express ideas. Prereq: ART 101 and ART 121.

#### **ART 202 Painting 2. 3 cr.**

Extended exploration of the technical and expressive possibilities of acrylic and oil along with mixed media painting approaches. Emphasis will be placed on the nurturing of personal content and individual language. Class will include field trip experiences. Prereq: ART 201.

#### **ART 220 Ceramics 1. 3 cr.**

An introduction into the forming, firing, and glazing methods in contemporary ceramics. Techniques will include use of the potter's wheel, hand building, slab construction, relief modeling, and low-fire glazes. Lectures and presentations will introduce historical movements from prehistoric through contemporary American ceramics.

#### **ART 222 Sculpture 1. 3 cr.**

An introduction into the tools, materials, and methods of modern sculpture. Lectures will present issues from Realism to Abstraction. Hands-on assignments will compliment lectures with work in wood, stone, and clay. Techniques introduced will cover the sculptural processes of carving, modeling, and construction.

#### **ART 231 Topics in 2-D Design. 3 cr.**

As a continuation of ART 121 this course presents intermediate concepts - such as module, grid, color, pattern/repeat, and texture - of

two-dimensional design. Prerequisite: ART 121.

**ART 240 Computer as a Design Tool 1. 3 cr.**

An in-depth study and application of techniques used to create computer-generated art using Adobe Photoshop Creative Suite software. Prereq: ART 121. Recommended: ART 201.

**ART 241 Computer as a Design Tool 2. 3 cr.**

An in-depth study and application of techniques used to create computer-generated drawings and illustrations using Adobe Illustrator Creative Suite software. Prereq: ART 121. Recommended: ART 201.

**ART 242 Web Design 1. 3 cr.**

Web Design is an investigation of structure, usability, and composition with focus on design aesthetics. The course introduces web construction applications and basic web methods. Teaching students technical competency, a critical eye, and an appreciation for effective Web Design. Prerequisites: ART 121. Recommended: ART 240 or ART 241

**ART 251 Photography 1. 3 cr.**

An introduction to the 35 mm camera and black and white darkroom techniques presented through demonstrations, assignments, and lectures. Course will present the history of photography from 1835 through the present, with an emphasis on fine artists, composition, and technical application.

**ART 252 Photography 2. 3 cr.**

Advanced camera and darkroom techniques with a focus on portfolio development and gallery presentation. Demonstrations and lectures will introduce advanced lighting techniques, large format cameras, specialized darkroom techniques, and color printing, infrared, and hand-coloring.

**ART 274 Printmaking 1. 3 cr.**

A study of drawing and composition applied to the making of multiples. The course introduces the media and techniques of relief and intaglio processes Prereq: ART 101, 102 and 121.

**ART 303 Graphic Design 1. 3 cr.**

Fundamentals of graphic design - including typography, layout, and imagery - are introduced in a sequence of practical experiences. Both traditional and desktop processes are used. Prereq: ART 231.

**ART 304 Graphics Design 2. 3 cr.**

A continuation of ART 303 which uses intermediate experiences to study issues such as format, color, and production techniques. Traditional processes emphasize concept, and desktop processes emphasize workflow. Prereq: ART 303.

**ART 310 Studio Workshop. 1-3 cr.**

Changing unique studio experience, taught by a guest artist and/or WLC art faculty. The course is directed at a specific studio focus to expand the students' knowledge and creative potential. Prereq: based on studio focus.

**ART 320 Ceramics 2. 3 cr.**

Advanced wheel and construction work with an emphasis on production and sculptural ceramics. Demonstrations and lectures will focus on glaze chemistry, kiln construction, slip-casting, and advanced wheel throwing techniques. Prereq: ART 220.

**ART 322 Sculpture 2. 3 cr.**

Extended work into sculpture techniques, current trends, and issues. Advanced work in welding, metalworking, mold making, and lost-wax casting. Prereq: ART 122.

**ART 330 Advanced Computer Applications. 3 cr.**

A continued study of computer techniques as they apply to design and illustration. Prereq: ART 240, 241, and 351.

**ART 340 Ceramics 3. 3 cr.**

The study of function and sculpture high fire ceramics. The student will work with porcelain and stoneware clays, learn reduction and gas firing, kiln construction and firing, and high fire glaze mixing, application, and firing. Prereq: ART 220 or 320.

**ART 342 Web Design 2. 3 cr.**

Web Design 2 is a continuation of ART 242. This course investigates additional media techniques via advanced approaches of web design and media design, with a focus on aesthetics. Prereq: ART 242. Recommended: ART 240 or ART 241.

**ART 345 Kinetic Art. 3 cr.**

This course is viewed as building on the work in Sculpture 1 and 2. Students will work with light, gravity, mechanical movement (operated by hand) and air currents, to make kinetic sculpture. The course will include historical work of Duchamp, Man Ray, Tinguely, Paik, and Calder as background for the work. Prereq: ART 222.

**ART 350 Illustration. 3 cr.**

A studio course introducing students to concepts and techniques of traditional illustration. Includes line, halftone, and color techniques. Concepts include spot, narrative, editorial, and self promotion. Prereq: ART 102 and 121.

**ART 351 Visual Communication 2. 3 cr.**

Advanced applications in graphic design, layout, illustration, and Quark XPress software. Prereq: ART 350.

**ART 352 Photography 3. 3 cr.**

An in-depth and directed study into the medium of photography. The student will determine an advanced area of research in consultation with the instructor and focus on a specific area of photography as an art form. Color photography and chemistry, video and documentary production, advanced black and white darkroom techniques, and advanced printing papers and chemistry are options, the goal of this course is for the student to produce a cohesive and thematically unified body of work ready for exhibition. Prereq: ART 251 or ART 252.

**ART 356 Fiber Art and Design. 3 cr.**

Adaptation of design principles and creative concepts to two- and three-dimensional problems utilizing fiber-based media. Techniques to be explored include fiber manipulation, applique, quilting, and soft sculpture. Prereq: ART 121.

**ART 357 Figure Sculpture 1. 3 cr.**

Figure modeling is explored through carving and casting in stone, wood, clay, and bronze. Students will study the figure in art working from life and classical studies. Course work will center on the study

of anatomy, perceptual understanding, and modeling skills.

**ART 358 Art Metals. 3 cr.**

Basic principles of metalwork and jewelry introduced through small metal fabrication and casting processes. Emphasis is on creative design and craftsmanship. Prereq: ART 121 and 122.

**ART 360 Watercolor. 3 cr.**

A study of the techniques and application of various watercolor media, including transparent watercolor and gouache. Prereq: ART 101.

**ART 367 Figure Sculpture 2. 3 cr.**

Figure Sculpture 2 will focus on casting the figure in bronze, mold making, and advanced modeling techniques. Clay modeling and anatomy form the core of the course, with outside work and casting in bronze and resin. Studio work from the model, lectures, and discussions will cover the history of contemporary figurative work. Prereq: ART 222.

**ART 374 Printmaking 2. 3 cr.**

A continuation of ART 274. This course investigates additional media and techniques of fine art printmaking. Students learn more advanced approaches and techniques, with a focus on artistic creativity. Prereq: ART 274

**ART 375 Printmaking 3. 3 cr.**

A continuation of ART 374. This course investigates additional media and techniques of fine art printmaking. In the studio students will have the opportunity, time and instruction to focus on their own creative artistic images. Prereq: ART 374

**ART 379 Advanced Drawing. 3 cr.**

Advanced study of the drawing media based on previous studio work. Guided and exploratory development of the drawing media with a focus on concepts, materials, aesthetics, and individual awareness. Research and outside experiences are involved in the advanced process of developing a personal style. Prereq: ART 102.

**ART 380 Advanced Painting. 3 cr.**

A continuing study of previous studio work with painting media offering exploratory approaches to concepts, aesthetics, and awareness. Emphasis on the student's individual technique, statement, and expressive content. The course will focus on advanced research into the student's individual style. Prereq: ART 202.

**ART 381 Anatomy for the Artist. 3 cr.**

The student will focus on the study of the human figure from observational, expressive, and scientific viewpoints. Students will develop perceptual drawings from people, anatomical models, and artists' works. Lectures will include the presentation of the depiction of the human figure in history and a base knowledge of the musculo-skeletal system. Prereq: ART 101 and 102.

**ART 385 Animal Anatomy for the Artist. 3 cr.**

Animal Anatomy: Students will learn to individually express the unique visual characteristics of animals, primarily with drawing media, through regular trips to the zoo and other related sites around the area. Through observation of and drawing of creatures, students will also learn more about identifying animal species, their anatomy, behavior and personality. Prereq: ART 101 or approval from

instructor

**ART 392/492 Advanced Art Studio. 3 cr.**

An advanced studio course focusing on the student's individual exploration of various 2-D or 3-D media. Research and outside experiences are involved.

**ART 475 Printmaking 4. 3cr.**

A continuation of ART 375. This course continues to investigate additional media and techniques of fine-art-printmaking. In the studio students will have the opportunity, time and instruction to focus on their own creative artistic images. Prereq: ART 375.

*Art Application*

**Art 199-499 Independent Study. 1-3 cr.**

Students will focus on individual direction based on previous research and studio work at WLC under the direction of an art faculty member. A written contract designed by the student and instructor will outline the research, media, and criteria. All materials to be provided by the student.

**ART 401 Senior Seminar. 1-3 cr.**

A group study of students' individual work and current trends in art. Faculty and visiting professionals will discuss making the transition from undergraduate studies to graduate school, a professional career, or employment. Elements of professional practices are explored, including portfolio preparation, resumes, gallery dealings and responsibilities, and advanced research in art. Prereq: junior standing.

**ART 490 Internship in Art. 1-3 cr.**

A professional work experience under the supervision of selected business and WLC art department faculty within the student's area of emphasis. The student relates theory to practice and interacts with professionals in a specific art-related field. Regular progress reports and a final written summation are required.

**ART x91 Special Topics. 1-3 cr.**

Selected advanced topics in art. Content varies. Course may be taken for credit more than once with different topics.

**ART 497 Thesis Exhibition. 1 cr.**

Each graduating art major will prepare an exhibit of his or her selected work, with the approval of art faculty. Includes artist's statement, exhibit preparation, and production of an exhibit announcement. Prereq: department approval and senior standing.

## BIOCHEMISTRY (BCH)

Biochemistry is an investigation of the chemical composition of living matter and the molecular nature of the processes of living systems. Biochemists gain mathematical, chemical, and biological understanding of the pathways of energy throughout the molecules of the cell. In these studies, students explore the intricate design of God's creatures. Motivated by the Holy Spirit, one cannot help but exclaim with the Psalmist, "I praise you because I am fearfully and wonderfully made" (Ps. 139:14).

The biochemistry major is designed to accommodate students planning careers in which a strong physical science component is important and to prepare the students for graduate study or employment in a variety of disciplines.

The biochemistry course requirements are comprised of chemistry (CHE) and biology (BIO) courses, along with collateral requirements in math and physics.

A student majoring in Biochemistry may not also major or minor in Biology or Chemistry.

## COURSE OF STUDY

- A. A major in biochemistry consists of a minimum of 55 credits of biology and chemistry as follows:
1. General Chemistry (10 cr.): CHE 161 and 162
  2. Organic Chemistry (8 cr.): CHE 221, 222, 228
  3. Quantitative Analysis (3 cr.): CHE 210
  4. Physical Chemistry (3 cr.): CHE 341
  5. Biochemistry (4 cr.): CHE 350, 358
  6. General Biology (8 cr.): BIO 201, 202
  7. Cell Biology (4 cr.): BIO 331
  8. Genetics (4 cr.): BIO 360
  9. Molecular Biology (4 cr.): BIO 433

Electives (select at least 2 courses from the following)

- BIO 341 (4 cr.) Microbiology
- BIO 354 (4 cr.) Immunology
- BIO 372 (4 cr.) Developmental Biology
- CHE 310 (4 cr.) Instrumental Analysis
- CHE 420/428 (4 cr.) Advanced Organic Chemistry
- CHE 430 (3 cr.) Inorganic Chemistry

- B. Collateral Requirements (18 credits):
1. Mathematics (8 cr.): MAT 221 and 222.
  2. Physics (10 cr.): PHY 201 and 202.

## BIOLOGY (BIO)

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The study of biology will introduce the student to the principle aspects of the biological sciences from a Christian perspective. The diversity of plant and animal life; their origins, form, function, heredity, development; and their relation to the environment are studied through a variety of classroom, laboratory, and field experiences.

In addition to preparing students to be good stewards of God's creation, offerings in biology prepare students for careers or graduate study leading to work in:

- agriculture, conservation, dentistry, fisheries, forestry, medicine, marine biology, medical technology, nursing,

physical or occupational therapy, sports medicine, veterinary medicine, and other health professions;

- environmental research and management;
- business careers in health administration, instrumentation, pharmaceuticals, and environmental consulting;
- teaching and research at colleges or universities.

## Course of Study

A. A major in Biology consists of a minimum of 43 credits comprised of 28 core credits and 15 elective credits.

1. Core Courses: BIO 201/202 or 203, 310, 331, 360, 380, 401, 402 (These core courses must be completed at WLC unless previously transferred prior to enrolling at WLC).
2. Completion of one of the following tracks which requires at least 15 credits:
  - a. Ecological Sciences: BIO 283, 321, 322, 324, 341, 465, 481, 483.
  - b. Cellular and Molecular Biology: BIO 225, 255, 341, 354, 355, 365, 372, 433, 455.
  - c. Health Sciences: BIO 225, 255, 240, 323, 341, 354, 355, 365, 372, 455.
  - d. Biophysics and Biotechnology: BIO 225, 255, 341, 354, 355, 365, 372, 433.
  - e. Neuroscience: BIO 225, 255, 322, 354, 355, 372, 433, 455.
  - g. General: all course from BIO 225 or higher.

B. Collateral Requirements for Biology majors:

1. Core Collaterals for all tracks: CHE 161, 162, 221, MAT 221, and PHY 201 or 202.
2. Completion of at least 12 credits from the collaterals listed for the corresponding biology major track.
  - a. Ecological Sciences: ANT 202, CHE 210, 310, ESS 182, 300, MAT 222, 223, PHY 201 or 202.
  - b. Cellular and Molecular Biology: CHE 210, 222, 228, 310, 350, CSC 131, MAT 222, 223, PHY 201 or 202.
  - c. Health Sciences: CHE 222, 228, 350, COM 340, MAT 222, 223, PHY 201 or 202, PHI 201.
  - d. Biophysics and Biotechnology: MAT 222, 223, PHY 201 or 202, PHY 301, 302, 303, 304.
  - e. Neuroscience: PSY 101, 120, 210, 280, 300, 350.
  - g. General: Any combination of courses listed above for track collaterals.

Note: Graduate programs may require specific track collaterals. Please speak with the Biology Department for advising information.

C. A minor in Biology consists of at least 22 credits in biology and includes:

1. Required: BIO 201/202 or 203.
2. At least 11 credits from any Biology courses.
3. At least 3 credits from the following: BIO 490, 492, 498, 499.



## Course Descriptions

### **BIO 120 Life Science. 3 cr.**

Major biological principles and concepts relevant to humans and their environment. The nature of doing science. Hands-on activities, investigations, and a writing component are required. Not applicable to the major or minor in biology. 3 lec.

### **BIO 124 Plant Science. 4 cr.**

This course explores the importance of plants for life and society; plants and ecology; wild and cultivated edible plants; medicinal uses, garden, and house plants; plants and human nutrition; plant growth and reproduction. A plant collection is required. Not applicable to the major or minor in biology. 3 lec, 2 hrs. lab.

### **BIO 141 Introduction to Microbiology. 4 cr.**

Topics include the germ theory of disease, the immune system, public health, food microbiology, agricultural and industrial application. Emphasis on current topics and reading of the secondary scientific literature. Not applicable to the major or minor in biology. 3 lec, 2 hrs. lab.

### **BIO 201 Principles of Biology 1. 4 cr.**

Includes aspects of ecology, environmental science, plant and animal tissues, food production and intake, human anatomy and physiology, reproduction in plants and animals, living kingdoms, and animal behavior. 3 lec, 2 hrs. lab.

### **BIO 202 Principles of Biology 2. 4 cr.**

An introduction to cellular reproduction, genetics, natural selection, biochemistry, and cellular biology. 3 lec, 2 hrs. lab.

### **BIO 203 Advanced Principles of Biology. 4 cr.**

An accelerated survey of basic principles in biochemistry, cell biology, genetics, ecological science, plant and animal histology, anatomy and physiology, reproduction, evolution and taxonomy. This course fulfills the BIO 201 and BIO 202 requirements for the Biochemistry, Biology, Biological Anthropology, Marine Biology and Sport & Exercise Science majors for well-prepared students who desire an accelerated survey course in Biology. Prereq: transfer credits in introductory Biology with a 2.5 average or better, AP exam test score of 4 or 5, enrollment in the honors program and/or approval by the Biology Department.

### **BIO 225 Human Anatomy and Physiology 1. 4 cr.**

A systematic approach to the study of human anatomy and physiology using models, charts, readings and dissection. A human cadaver is an integral part of this course. Emphasis is placed on anatomy. Mastery of anatomical vocabulary is expected. 3 lec, 2 hrs. lab.

### **BIO 255 Human Anatomy and Physiology 2. 4 cr.**

A continuation of Human Anatomy and Physiology 1 with emphasis on the function of organ systems and cellular mechanisms responsible for homeostasis. 3 lec, 2 hrs. lab. Prereq: BIO 225.

### **BIO 240 Nutrition. 3 cr.**

Essentials of normal nutrition and its relationship to the health and wellbeing of individuals and families will be emphasized. Included

will be the study of the physiological, psychological, and economic aspects of obtaining an adequate diet. 3 lec. This course is required prior to applying to the Nursing program.

### **BIO 275 Evolution and Diversity. 4 cr.**

A study and evaluation of the mechanisms of evolution, evolutionary history and the diversity of life. The theological implications of modern evolutionary theory will also be considered. Labs investigate population genetics, phylogeny, form, and behavior of selected organisms and provide experience in experimental design and scientific writing. 3 lec, 2 hrs. lab.

### **BIO 283 Marine Ecology. 3 cr.**

An introduction to marine ecology for science and non-science majors in a unique field and laboratory environment on the island of Jamaica. Field trips will include coral reef, estuary, and tide pool communities. Offered during vacation breaks. (Additional fees and instructor approval are required for this course.)

### **BIO 310 Biostatistics. 3 cr.**

This course will provide students with an introduction to modern statistical techniques used to analyze and interpret data in the biological sciences and related fields. Topics include descriptive statistics; averages; random sampling; sample size; binomial, normal, Student T, Chi-square, and F distributions; estimation and tests of hypothesis; linear regression and correlation; multiple comparisons; ANOVA analysis. Emphasis is placed on hypothesis testing and experimental design. 3 hrs lec. Prereq: junior status or MAT 222.

### **BIO 321 Invertebrate Zoology. 4 cr.**

A study of anatomy, behavior, classification, and ecology in invertebrates. Organisms will be collected from the Menomonee River, Milwaukee County Ponds, and Lake Michigan. 3 lec, 2 hrs. lab. Prereq: BIO 201 and BIO 202.

### **BIO 322 Vertebrate Zoology. 4 cr.**

Aspects of anatomy, behavior, classification and ecology of vertebrates. Field trips will include bird identification and sampling fish in streams and lakes. 3 lec, 2 hrs. lab. Prereq: BIO 201 and BIO 202.

### **BIO 323 Medical Terminology. 2 cr.**

The basic elements, rules of building and analyzing medical words, and medical terms associated with the body as a whole. Utilizing a systems approach, the student will define, interpret, and pronounce medical terms relating to structure and function, pathology, diagnosis, clinical procedures, oncology, and pharmacology. In addition to medical terms, common abbreviations applicable to each system will be interpreted. Prereq: BIO 201, 202, 225, or 255

### **BIO 324 Botany. 4 cr.**

Study and identification of nonseed plants, gymnosperms and angiosperms. The economic and ecological importance of these plants is considered. Field studies and a plant collection are required. 3 lec, 2 hrs. lab. Prereq: BIO 201 and BIO 202.

### **BIO 331 Cell Biology. 4 cr.**

Study of the cell as the fundamental structural and functional unit of living organisms: cell morphology and morphogenesis, cellular movement, interaction, ultrastructure and related organelle functions,

reproduction, differentiation and histogenesis. 3 lec, 3 hrs. lab. Prereq: BIO 201 and BIO 202.

**BIO 341 Microbiology. 4 cr.**

A survey of microorganisms, their structure, geochemical activity, nutrition, growth, application in industry, and control in public health. 3 lec, 3 hrs. lab. Prereq: BIO 201 and BIO 202.

**BIO 354 Immunology. 4 cr.**

An introduction to the mammalian immune system. The genetic and cellular basis of the immune response is explored through lectures, readings from primary and secondary literature and discussions. 3 lec, 3 hrs. lab. Prereq: BIO 201 and BIO 202.

**BIO 355 Pathophysiology. 3 cr.**

An integration of human anatomy, physiology, and biochemistry with special emphasis on the etiology and mechanisms of disease. Lecture topics will include: cell injury, inflammation, immunity, neoplasia, blood & circulatory disorders, respiratory disease, gastrointestinal disease, electrolyte imbalances, endocrinology, reproductive physiology, musculoskeletal disease, pain management, and disorders of the central nervous system. 3 lec, Prereq: BIO 202.

**BIO 360 Genetics. 4 cr.**

Physical and chemical basis of heredity and variation: genetic system, structure and roles of nucleic acids, mutation, and genes in development and population genetics. 3 lec, 3 hrs. lab. Prereq: BIO 201 and BIO 202.

**BIO 365 Muscle and Exercise Physiology. 4 cr.**

In-depth focus on the mechanisms, regulation and function of striated muscle metabolism and contraction with emphasis on performance and adaptation in both normal and pathological situations. Cellular and molecular adaptations to physical activity and inactivity are covered. Athletic injury and recovery and other conditions that impact muscle function are studied. 3 lec, 3 hrs. lab. Prereq: CHE 101 or CHE 161 and BIO 225.

**BIO 372 Developmental Biology. 4 cr.**

An introduction to the genetic, molecular, and cellular mechanisms that direct the development of multicellular organisms. Topics include: gametogenesis, fertilization, gastrulation, organogenesis, sex determination, developmental gene regulation, and teratology. The scientific, ethical and political issues surrounding assisted reproductive technology, cloning, and stem cell technology will also be considered. 3 lec, 3 hrs. lab. Prereq: BIO 201 and BIO 202.

**BIO 380 Ecology. 4 cr.**

Properties of populations, communities, and ecosystems; energy and nutrient exchange, population growth and regulation, competition, predation, mutualism, nature of communities, and biogeography. 3 lec, 2 hrs. lab. Prereq: BIO 201 and BIO 202.

**BIO 401 Research Strategies 1. 2 cr.**

An advanced student/faculty collaborative research course including in depth discussion of laboratory/field techniques, the development of an original research proposal and extensive laboratory/field experience. Required capstone for the Biology major. 2 lec/lab. Prereq: Senior Biology major or by approval from the School of Life Sciences.

**BIO 402 Research Strategies 2. 3 cr.**

A continuation of the BIO 401 capstone requirement for Biology majors. Extensive laboratory/field research followed by a written and oral summary of the original capstone research project. 3 lec/lab. Prereq: BIO 401.

**BIO 425 Advanced Human Anatomy 2 cr.**

A systematic approach to studying human gross anatomy through lecture and human cadaver dissection. Dissections include the muscular and skeletal, nervous, cardiovascular, respiratory, digestive, urinary, and reproductive systems. Models, applications, and textbooks will also be utilized. 1 hr lec, 2 hr lab. Prereq: BIO 225 and 255.

**BIO 433 Molecular Biology. 3 cr.**

Major themes in biochemistry are examined in the context of mammalian physiology. Topics include: protein structure and enzyme catalysis, carbohydrate and lipid metabolism in relation to energy production, nitrogen metabolism, vitamins, protein and nucleic acid synthesis, and the nature of the genetic code. 3 lec, 3 hrs. lab. Prereq: BIO 331 and BIO 360.

**BIO 455 Advanced Physiology. 4 cr.**

An integration of biochemistry, molecular biology, cell biology, and genetics focused on understanding gene expression, inter- and intra-cellular signaling, and other regulatory systems that maintain cellular and organismal homeostasis. Labs will examine how these topics serve to coordinate developmental, immunological, or disease processes. 3 lec, 3 hrs. lab. Prereq: BIO 225 and BIO 331.

**BIO 481 Natural Resource Connections. 4 cr.**

A series of guest lecturers will expose students to factual examples of global and national natural resource interconnectedness issues. Many of the topics will focus on our nation's public lands with an emphasis on national forests and grasslands. Students will be required to choose a subject from the various lecture topics and work with the lecturers to obtain information and prepare a paper for presentation. Prereq: BIO 201 and BIO 202.

**BIO 483 Stream Ecology. 4 cr.**

The study of biotic and abiotic aspects of stream ecosystems, including sampling and identification of fish and macroinvertebrates. Anthropogenic effects on streams in the context of Christian ecological stewardship will be evaluated by comparing streams in urban and more natural watersheds. 3 lec, 3 hrs. lab. Prereq: BIO 201 and BIO 202.

**BIO 490 Internship. 1-3 cr.**

By arrangement with department.

**BIO x91 Special Topics. 1-4 cr.**

This course is a seminar in current biological topics. It may be repeated for different topics. This course may require laboratory participation. Prereq: Instructor approval.

**BIO 492 Department Seminar. 1-3 cr.**

A small group exploration of primary and secondary literature in various aspects of biology. Students will provide overviews of literature in their area of interest. Select discussion questions will also be sent out to Internet discussion groups for comments from students and professors at colleges and universities around the world. Prereq: BIO 201 and BIO 202.

**BIO 498 Independent Research. 1-3 cr.**

By arrangement with the department.

**BIO 199-499 Independent Study. 1-3 cr.**

By arrangement with the department.

## **BUSINESS ADMINISTRATION (BUS)**

The Business Administration major/minor at Wisconsin Lutheran College is nested within the liberal arts and firmly founded in Christ. Students begin with general education requirements and introductory business courses. Once admitted to the program, students can choose an emphasis area in accounting, finance, management, marketing, international business, or general business.

The faculty members in the business administration program strive to develop students with skills in critical thinking, negotiating, analyzing, ethical decision making, and communicating; all of which are critical to a student's future success as a Christian leader. Students are prepared to make an immediate contribution to an organization upon graduation. Business administration professors combine theoretical knowledge and research with real world examples. Students can expect an active learning environment that consists of the analysis of real-life case studies, skills development, personal interaction with professors who have years of work experience outside academia, along with various possibilities for internships.

The Business Administration major also contains the necessary coursework for admission to most MBA programs.

### **Major Requirements**

- A. A major in Business Administration consists of at least 36 credits)
1. Core Courses: BUS 181, 182, 210, 220, 240, 250, 301, 303, and 480.
  2. At least 12 credits from one of six emphasis areas.
    - a. General Business - Choose at least one 300 level or above business class in each of finance, marketing, and management areas in addition to BUS 231..
    - b. Marketing - BUS 342, 343, 347, 372, 490, COM 315, 331, 332 (no more than three credits from Communication courses).
    - c. Management - BUS 350, 352, 359, 371, 381, 490, COM 333, 360 (no more than three credits from Communication courses).
    - d. International Business - BUS 371, 372, 386, 420, 490, ANT 320, COM 309.
    - e. Finance - BUS 231, 320, 322, 325, 326, 381, 420, 490.
    - f. Accounting - All courses are required: BUS 231, 332, 333, 334, 336, 431, 433, 436. Note: Students that would like to sit for the CPA exam and follow a career in the area of public accounting, or other areas requiring a CPA, need to complete a 150 credit state required program. Students should work with their advisor to plan out a program of study.
  - 3.. Collateral Courses: COM 201, 211, 301, MAT 117 (or MAT

351 and MAT 352), MAT 210 (or MAT 221), PHI 102.

### **Minor Requirements**

- A. A minor in Business Administration consists of at least 27 credits.
1. Core Courses: BUS 181, 182, 210, 220, 240, 250, 480.
  2. Electives: Choose at least six credits from any 300 or 400 level business course.
  3. Collateral Courses: MAT 117 (or MAT 351 and MAT 352), MAT 210 (or MAT 221),.

### **Course Descriptions**

#### **BUS 150 Introduction to Business. 3 cr.**

An overview of business functions and the role of business in contemporary society. Designed for students thinking about studying business or those who would like a general overview of business.

#### **BUS 181 Principles of Microeconomics. 3 cr.**

Principles of microeconomics and theories with emphasis on economic analysis and special application to managerial economics. (BUS majors/minors must get a C or better)

#### **BUS 182 Principles of Macroeconomics. 3 cr.**

Basic economic principles and theories with emphasis on macroeconomics and special application to the American economic system and its problems. (BUS majors/minors must get a C or better)  
Prereq: BUS 181.

#### **BUS 210 Financial Accounting. 3 cr.**

The fundamental techniques of analyzing, recording, summarizing, and reporting the financial effects of business transactions. Examines generally accepted accounting principles and concepts/procedures of financial accounting essential to the preparation, understanding, and interpretation of accounting information. Prereq: Sophomore standing.

#### **BUS 220 Introduction to Finance and Investments. 3 cr.**

Introduction to the theory of finance and investments. Study focuses on developing the analytical tools necessary for the study of investments and corporate finance including asset valuation models, probability, and statistical methods as they apply to finance. Prereq: BUS 182, 210, MAT 117 (or MAT 351 and 352). Students are strongly encouraged to take MAT 210 (or MAT 221) before or concurrently with this class.

#### **BUS 231 Managerial Accounting. 3 cr.**

Explores the planning, decision-making, and control of business operations using managerial accounting information. Prereq: BUS 210.

#### **BUS 240 Principles of Marketing. 3 cr.**

Analysis of institutions, functions, and problems in marketing; planning and procedures related to the distribution of goods; costs, price determination, and trends.

**BUS 250 Principles of Management. 3 cr.**

Theory of management, managerial functions, departmentalization, staffing, direction, planning, and control.

**BUS 301 Business Ethics. 3 cr.**

This course will focus on the interaction of ethics and business. The emphasis will be on developing Christian business leaders. Students will explore moral and ethical problems confronting business in the context of political, social, and ecological environments. Topics will include ethical issues in the free market economic system, the social responsibility of business, compensation issues, and international trade. Prereq: BUS 250.

**BUS 303 Business Law. 3 cr.**

Contracts, bankruptcy, agency, employment law, and administrative law. Prereq: BUS 250.

**BUS 320 Intermediate Investments. 3 cr.**

Development and management of investment portfolios for personal and institutional investors; asset allocation; security selection; valuation models; characteristics of markets; pricing anomalies; hedging strategies; and market timing. Prereq: BUS 220 and MAT 210 (or MAT 221)

**BUS 322 Intermediate Finance. 3 cr.**

Development of the theory, method, and analytical techniques of financial management. Techniques of capital budgeting, valuation of projects and firms, theory of capital structure, dividend policy, cost of capital, and mergers and acquisitions. Prereq: BUS 220 and MAT 210 (or MAT 221).

**BUS 325 Financial Markets and Institutions. 3 cr.**

An analysis of the U.S. and foreign financial systems. Prereq: BUS 220 and MAT 210 (or MAT 221).

**BUS 326 Money and Banking. 3 cr.**

Depository institutions, central banking and money creation, price-level analysis, interest level determination, interest rate theory, money and capital markets. Prereq: BUS 220 and MAT 210 (or MAT 221).

**BUS 332 Intermediate Accounting. 3 cr.**

Examines, in a more in-depth way than introductory accounting, financial accounting theory, and techniques used to report financial information to investors, creditors, and other external users. Prereq: BUS 210.

**BUS 333 Intermediate Accounting 2. 3 cr.**

A continuation of BUS 332 designed for students to refine financial reporting techniques and an understanding of financial accounting theory. Prereq: BUS 332.

**BUS 334 Auditing. 3 cr.**

Study of audit issues including the role of the auditor and process of auditing. Prereq: BUS 210.

**BUS 336 Income Taxation. 3 cr.**

An introduction to U.S. income taxation concepts. Includes coverage of topics related to preparing individual, corporate, and partnership income tax returns. Prereq: BUS 210.

**BUS 342 Marketing Research. 3 cr.**

Study of the research process as an aid to decision making. Emphasis on the planning of research and the gathering, analysis, and interpretation of information. Prereq: BUS 240 and MAT 117 or concurrent registration.

**BUS 343 Advertising. 3 cr.**

Study of advertising as a tool in the marketing process: advertising media, methods, campaigns, cost analysis, and consumer habits and psychology will be explored. Prereq: BUS 240.

**BUS 347 Consumer Behavior. 3 cr.**

Application of behavioral science principles to the consumer decision-making process. Prereq: BUS 240.

**BUS 350 Human Resources Management. 3 cr.**

Principles, policies and practices applicable to personnel problems in dealing with staffing, training, wages, labor relations and communications. Prereq: BUS 250.

**BUS 352 Organizational Behavior. 3 cr.**

Human behavior and Christian ethics in the world of work: power, authority, rules, status, norms, leadership, communication, motivation, group processes, and conflict resolution. Prereq: BUS 250.

**BUS 359 Small Business Management. 3 cr.**

This course will focus on the creation, development, operation, and selling of a business entity. We will examine the skills, character, and traits of entrepreneurs. The course will also look at the economic impact that small business has on the economy. From this standpoint, we will study risk, uncertainty, transaction costs, and the importance of relevant information in the successful operation of a business. Prereq: BUS 210, BUS 240, BUS 250.

**BUS 371 Cross Cultural Management. 3 cr.**

A study of the concepts, problems, processes and practice of managing across borders and cultures. Prereq: BUS 250.

**BUS 372 Global Marketing. 3 cr.**

A study of the structure, techniques, problems and general environment of marketing abroad. Topics include advertising, distribution, strategy and legal aspects. Prereq: BUS 240.

**BUS 380 History of Economic Thought. 3 cr.**

This course will examine alternative theories adopted and advocated throughout history, their merits and their failings, along with the way they were employed to bring us to the present. Topics will include the theories of value, wages, profit, rent, money, and the role of government and the individual. Prereq: BUS 182.

**BUS 381 Managerial Economics. 3 cr.**

Application of price theory and economic theory of the firm to business management decisions. Use of microeconomics and macroeconomics in forecasting for business policy. Prereq: BUS 182, MAT 117 (or MAT 351), and MAT 210 (or MAT 221).

**BUS 386 International Economics. 3 cr.**

An analytical approach to assessing and understanding current impacts that international economics have on the United States. Emphasis is on gains from trade, economic growth, exchange rates,

price formation, trade policy, and political considerations. Prereq: BUS 182.

**BUS 420 International Finance. 3 cr.**

The focus of this course is on exchange rate determination and applications of financial theory to the operations of multinational firms. Topics also include international portfolio and direct investment, capital budgeting, international taxation of business, and an analysis of international market and financial institutions. Prereq: BUS 220.

**BUS 431 Cost Accounting. 3 cr.**

Advanced study of various costing methods including job costing, activity - based costing, budgeting, quality and inventory control, and pricing. Prereq: BUS 333.

**BUS 433 Advanced Accounting. 3 cr.**

Theoretical, procedural, and practical issues associated with financial reporting. Topics include alternative reporting entities, accounting for mergers and acquisitions, consolidations, foreign operations, and complex financial instruments. Prereq: BUS 333.

**BUS 436 Advanced Taxation. 3 cr.**

A continuation of BUS 336 Income Taxation. An in depth study of advanced individual income tax topics, and a study of the federal taxation system for Partnerships, S-Corps, and Estates and Gifts. Prereq: BUS 336

**BUS 480 Research Seminar in Business Administration. 3 cr.**

A capstone course culminating in a scholarly research article prepared by the student and presented. Research methods are reinforced and topics are discussed in class. Prereq: senior standing and consent of instructor.

**BUS 490 Internship. 1-3 cr.**

By arrangement with the department.

**BUS x91 Special Topics. 1-3 cr.**

An in-depth study and discussion of a specific business topics. May be repeated with change of topics. Possible topics include leadership, transnational strategic management. Prereq: varies with topic.

**BUS 199-499 Independent Study. 1-3 cr.**

By arrangement with the department.

## CHEMISTRY (CHE)

The major in chemistry is designed to develop a broad and thorough understanding of the fundamentals of the discipline including an ability to respond to God's command to "subdue [the earth]" (Gen. 1:28). Scientific understanding is central to any Christian's view of God's creation and the world around us as we are taught by Scripture, "For since the creation of the world His invisible attributes are clearly seen, being understood by the things that are made..." (Rom 1:20). A study of chemistry is one of peering into our Lord's "invisible attributes" as he has revealed them through creation, molecules, atoms, and chemical reactions. By so doing, the Christian student will gain a greater appreciation of what God has done for His people.

There are two tracks in the chemistry major. Option A is designed for those students wishing to pursue a career in chemical research, as a lab technician, or to further their education in chemistry graduate studies. The requirements of option A correspond to American Chemical Society certification requirements. Option B is designed for pre-medicine, secondary education, and chemistry/business majors. The intent of this option is to give the student a solid background in chemistry that can be applied in a second area of study. Students in either option are encouraged to develop computer programming skills.

The chemistry minor provides a foundation for students majoring in another area to receive the chemistry/science training they will need in today's technological world.

### Course of Study

- A. A major in chemistry following option A consists of a minimum of 43 credits in chemistry as follows:
  1. General Chemistry: CHE 161 and 162.
  2. Organic Chemistry: CHE 221, 222, 228.
  3. Analytical Chemistry: CHE 210, 310.
  4. Physical Chemistry: CHE 341, 342, 348, 349.
  5. Inorganic Chemistry: CHE 430.
  6. Electives: At least 7 credits including:
    - a. At least one advanced lab course from: CHE 350 & 358, 378, 410, 428, 438, 448, 490, 498.
    - b. At least one course from: CHE 350, 391, 410, 420, 440, 491, 499.
  7. Collateral Requirements: MAT 221, 222, 223; PHY 201, 202.
  
- B. A major in chemistry following option B consists of a minimum of 36 credits in chemistry as follows:
  1. General Chemistry: CHE 161 and 162. (May be waived by testing.)
  2. Organic Chemistry: CHE 221, 222, 228.
  3. Analytical Chemistry: CHE 210, 310.
  4. Physical Chemistry: CHE 341, 348.
  5. Electives: At least 7 credits from the following: CHE 342, 349, 350, 358, 378, 391, 410, 420, 428, 430, 438, 440, 448, 490, 491, 498, 499.
  6. Collateral Requirements: MAT 221, 222, 223; PHY 201, 202.
  
- C. A minor in chemistry consists of a minimum of 24 credits as follows:
  1. General Chemistry: CHE 161 and 162.
  2. Organic Chemistry: CHE 221, 222, 228.
  3. Analytical Chemistry: CHE 210.
  4. Electives: At least one course from the following: CHE 310, 341, 342, 350, 371, 378, 410, 420, 428, 430.

## Course Descriptions

### CHE 101 Fundamentals of Chemistry. 4 cr.

This course for non-science majors explores the importance of chemistry in everyday life, emphasizing descriptive chemistry and developing quantitative concepts carefully. 3 lec., 3 hrs. lab. Prereq: MAT 116 with a grade of C or better or placement into MAT 221 or higher.

### CHE 161 General Chemistry 1. 5 cr.

A study of the fundamental laws and concepts of chemistry. The emphasis is placed on atomic and molecular structure and bonding, stoichiometry, thermodynamics, and solutions. 4 lec., 3 hrs. lab. Prereq: MAT 116 with a grade of C or better or placement into MAT 221 or higher.

### CHE 162 General Chemistry 2. 5 cr.

A continuation of CHE 161. This course includes the study of equilibrium systems, acid/base concepts, kinetics, phases of matter, electrochemistry, and nuclear chemistry. 4 lec., 3 hrs. lab. Prereq: CHE 161 with a grade of C or better.

### CHE 210 Quantitative Analysis. 3 cr.

A study of common analytical techniques, including gravimetric, titrimetric and spectrophotometric analysis, as well as separation techniques. 1 lec., 6 hrs. lab. Prereq: CHE 162.

### CHE 221 Organic Chemistry 1. 3 cr.

An introduction to nomenclature, electronic structure and chemistry of carbon compounds, including free radical substitution, electrophilic addition to alkenes, nucleophilic aliphatic substitution and elimination reactions. 3 lec. Prereq: CHE 162.

### CHE 222 Organic Chemistry 2. 3 cr.

A continuation of CHE 221 including spectroscopic methods of structure determination, aromatic and carbonyl chemistry, and amino acid chemistry. 3 lec. Prereq: CHE 221.

### CHE 228 Organic Chemistry Laboratory. 2 cr.

Preparation and analysis of organic compounds; introductory qualitative analysis. 6 hrs. lab. Prereq: CHE 222 or concurrent enrollment.

### CHE 310 Instrumental Analysis. 4 cr.

A study of common instrumental techniques including spectroscopic, chromatographic, electrochemical, and other physical methods for the analysis of materials. 2 lec., 6 hrs. lab. Prereq: CHE 210, PHY 202, or concurrent enrollment.

### CHE 341 Physical Chemistry 1. 3 cr.

Includes properties of gases; concepts and methods of classical thermodynamics and their application to chemical systems including: chemical reactions, phase changes, and solubility; the phase rule, equilibrium, electrochemistry, kinetics. 3 lec. Prereq: CHE 162, MAT 222 (MAT 223 recommended), PHY 202.

### CHE 342 Physical Chemistry 2. 3 cr.

Principles and methods of quantum mechanics and group theory as they apply to atomic and molecular structure and motion, rotational,

vibrational and electronic spectra, resonance techniques, and the electric and magnetic properties of molecules. 3 lec. Prereq: CHE 162, MAT 223, PHY 202.

### CHE 348 Physical Chemistry Laboratory 1. 1 cr.

Laboratory work illustrating physical chemistry principles including thermochemical and electrochemical measurements, kinetics, and bulk properties of matter. 3 hrs. lab. Prereq: CHE 341 or concurrent enrollment.

### CHE 349 Physical Chemistry Laboratory 2. 1 cr.

Laboratory work emphasizing spectroscopic techniques including acquisition and analysis of rotational, vibrational and electronic spectra. 3 hrs. lab. Prereq: CHE 342 or concurrent enrollment.

### CHE 350 Biochemistry. 3 cr.

A study of the chemistry of biological systems. Topics include structure and chemistry of amino acids, carbohydrates, lipids, proteins, and nucleic acids, energetics, kinetics, and metabolism. 3 lec., 3 lec. Prereq: CHE 222.

### CHE 358 Biochemistry Lab. 1 cr.

A survey of modern techniques in experimental Biochemistry. These include biomolecule separation, detection, and modification techniques; techniques for examining inherent biomolecule characteristics and interactions with other biomolecules; and bioinformatics and computational techniques. Using scientific writing to convey the results of experiments is emphasized. Prereq: CHE 350 or concurrent enrollment.

### CHE 410 Advanced Analytical Chemistry. 3 cr.

Advanced techniques and theory of chemical analysis, with a focus on applications such as environmental chemistry, forensic science, and pharmaceuticals. 1 lec., 6 hrs. lab. Prereq: CHE 210.

### CHE 420 Advanced Organic Chemistry. 2 cr.

Spectroscopic methods for structure determination. Use of molecular orbital theory and the Woodward-Hoffman rules and their role in determining reaction mechanisms. Discussion of advanced synthetic strategies. 2 lec. Prereq: CHE 222 and 228.

### CHE 428 Advanced Organic Laboratory. 2 cr.

Advanced techniques in the synthesis of organic compounds. Compliments topics in CHE 420. 6 hrs. lab. Prereq: CHE 420 or concurrent enrollment.

### CHE 430 Inorganic Chemistry. 3 cr.

Theories of bonding, electronic structure, properties and reactions of main group, transition metal, and organometallic compounds are discussed. 3 lec. Prereq: CHE 162.

### CHE 438 Inorganic Chemistry Laboratory. 1 cr.

Synthesis and characterization of inorganic compounds. Includes Schlenk line and glove box techniques. Compliments topics in CHE 430. 3 hrs. lab. Prereq: CHE 430 or concurrent enrollment.

### CHE 440 Advanced Physical Chemistry. 3 cr.

Advanced topics in physical chemistry which may include the following: treatment of thermodynamics and phase diagrams in

complex systems, liquids and solids, advanced treatment of chemical kinetics and reaction dynamics, advanced quantum theory, statistical thermodynamics. Topics will vary with instructor and student interests. 3 lec. Prereq: CHE 342 or concurrent enrollment.

**CHE 448 Advanced Physical Chemistry Laboratory. 1 cr.**

Advanced methods in determining the physical properties of matter. Compliments topics in CHE 440. Experiments will vary with instructor and student interests. 3 hrs. lab. Prereq: CHE 440 or concurrent enrollment.

**CHE 490 Internship. 1-3 cr.**

By arrangement with department and college internship coordinator. See college internship guidelines.

**CHE 498 Undergraduate Research. 1-3 cr.**

Chemistry majors may arrange for independent research with a faculty research advisor. Students are encouraged to repeat this course with their research advisor. However, no more than three credits may be applied toward the major. Work may be carried out off campus with permission of department. Written report required. If two or more credits are received, an oral presentation is also required. Prereq: Consent of instructor.

**CHE x91 Special Topics. 1-3 cr.**

In-depth study of advanced topic in chemistry in which the primary research literature is stressed. Lecture, discussion, student presentations, and papers. Prereq: varies with topic. May be repeated for credit with a new topic.

**CHE x92 Special Topics Laboratory. 1 cr.**

Laboratory work emphasizing designing and executing a project under the supervision of the instructor. To be taken in conjunction with CHE x91. Prereq: permission of the instructor. May be repeated with a new topic.

**CHE 199-499 Independent Study. 1-3 cr.**

Advanced topics (non-laboratory) may be studied which are not normally included in the regular course offerings. By arrangement with the department.

## CHINA STUDIES (CST)

Why study Chinese? Proficiency in any foreign language gives students a competitive edge after graduation as they either seek careers or further studies. At present, Chinese language ability is highly valued by the U.S. government, businesses, churches and many other organizations. A student who is proficient in Chinese is ready to interact with the world's largest and most dynamic cultural group, and has an edge in applying for jobs and graduate studies.

The China Studies major at WLC aims to equip students with a solid foundation in Chinese language and culture. We capitalize on small class sizes to provide an intensive and personalized environment for the study of Chinese language. In addition to developing language proficiency, we also seek to deepen the student's understanding of Chinese culture and customs through the study of Chinese tradition,

history and linguistics, as well as through internships and study in China.

### Course of Study

A. A China Studies Major will consist of a minimum of 39 credits of course work in the major area. This will include:

1. Required core courses: MAN 101, 102, 201, 202, 301, 302, 312.
2. At least 6 credits of the following: MAN 370, 371, 372, 375, 402, 490, 499, or by study abroad credits
3. Collateral Courses: ENG 330 and either HIS 363 or another approved Asian history course.

Students must complete an approved program of residence or internship in a Mandarin speaking country. Academic credits will be awarded subject to a diagnostic language exam after returning to WLC. Some courses completed abroad may be used to count toward the major.

B. Students must have a minimum grade of C in any language course and a cumulative/GPA in the major of at least 2.50.

C. A China Studies minor will consist of at least 21 credits:

1. Required core courses: MAN 101, 102, 201, 202.
2. At least one of the following: HIS 363 or another approved Asian history course.
3. At least 4 credits of the following: MAN 302, 303, 370, 402, 490, 499, or by study abroad credits

### Course Descriptions

**MAN 101 Mandarin Chinese 1. 4 cr.**

Introduction to the Mandarin Chinese language. Students will develop basic conversational skills and proficiency in reading and writing about 250 Chinese characters. The relationship between language and culture will be stressed throughout.

**MAN 102 Mandarin Chinese 2. 4 cr.**

Continuation of MAN 101. Prereq: MAN 101 (grade of C or better), or by placement.

**MAN 201 Mandarin Chinese 3. 4 cr.**

A continuation of Mandarin 102. Students will continue to develop basic conversational skills and proficiency in reading and writing about 550 Chinese characters. The relationship between language and culture will be stressed throughout. Prereq: MAN 102 (grade of C or better), or by placement.

**MAN 202 Mandarin Chinese 4. 4 cr.**

Continuation of MAN 201. Prereq: MAN 201 (grade of C or better), or by placement.

**MAN 301 Mandarin Chinese 5. 4 cr.**

A continuation of Mandarin 202. Students will start to develop more complex conversational skills with greater exposure to authentic Chinese materials of both spoken and written varieties, as well as somewhat lengthier listening and reading materials. Prereq: MAN 202 (grade of C or better), or by placement.

**MAN 302 Mandarin Chinese 6. 4 cr.**

Continuation of MAN 301. Prereq: MAN 301 (grade of C or better), or by placement.

**MAN 312 Introduction to Chinese Culture . 3 cr.**

Through the examination and discussion of Confucian, Daoist, Buddhist and modern texts, students will come to understand some enduring themes in Chinese culture, and examine the ways those beliefs are reflected in modern Chinese society. Students will also consider the implications this has for Christian outreach in China. Readings will be primarily in English with frequent reference to Chinese. Discussion will be primarily in English. Prereq: Permission of the instructor.

**MAN 370 Selected Topics in Chinese Literature and Film 3 cr.**

Students will read selected works by important Chinese writers. They will acquire an understanding of modern Chinese culture by directly exploring the complex thoughts of Chinese writers. Films will be used to provide a visual dimension and a comparative study to narratives. Prereq: Instructor approval.

**MAN 371 Modern Chinese Media 1: Television. 3 cr.**

Students will study samples of television media, including news casts and talk shows, with the goal of improving their proficiency in speaking and comprehending Mandarin Chinese. Prereq: MAN 302 (grade of C or better) or by placement.

**MAN 372 Modern Chinese Media 2: Newspapers and Blogs. 3 cr.**

Students will study various forms of modern Chinese texts with the goal of improving their proficiency in speaking, reading and writing Chinese. Texts will be primarily samples taken from print newspapers, but will also include some exposure to modern Chinese web forms such as blogs and chat groups. Prereq: MAN 302 (grade of C or better) or by placement.

**MAN 375 Chinese Grammar, Phonetics and Phonology. 3 cr.**

Students will be introduced to the basics of Chinese grammar, phonetics and phonology, as well as touch on some broader issues in Chinese language, such as the nature of Chinese characters and modern Chinese dialects. Readings will be primarily in English, with frequent reference to and focused practice of Mandarin Chinese. Class discussion will be primarily in English. Prereq: MAN 202 (grade of C or better), or by permission of the instructor.

**MAN 490 China Studies Internship. 1-3 cr.**

By arrangement with department and internship coordinator.

**MAN x91 Selected Topics. 3 cr.**

For students who have completed the necessary work to attain and advanced level of Chinese, especially those who have studied abroad in China. Special focus on a major topic, figure, movement or era in China, or a specialized use of Chinese (e.g. business Chinese, biblical Chinese). May be repeated with a change of title. Prereq: MAN 302 (grade of C or better), or by placement.

**MAN 199-499 Independent Study. 1-3 cr.**

By arrangement with department.

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## COLLEGE SEMINARS (COL)

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**COL 101 The Idea of a Christian College. 1 cr.**

A required seminar for all new freshmen, this course is intended to provide an extended orientation to college life and study. It will examine the philosophical and theological tensions inherent in a Christian liberal arts college, the skills and attitudes essential to success in college, and the intellectual perspectives which are nurtured through study of the liberal arts.

**COL 201 Christian Life Planning 1 cr.**

The second of two required orientation seminars, taken during the fall of the sophomore year, this course extends the orientation to college life and study begun in COL 101. It examines the philosophical and theological tensions inherent in a Christian liberal arts college, the skills and attitudes essential to success in college, and the intellectual perspectives that are nurtured through study of the liberal arts. Specifically, students explore a fundamental question of vocation: "What kind of education will I pursue?" and how their response to that question affects their goals planning, career planning, and academic program planning.

**COL 490 Internship. 1-3 cr.**

By arrangement with Internship Coordinator.

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## COMMUNICATION (COM)

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The study of communication enables students to develop speaking and listening skills as well as critical thinking skills. Communication students also develop research skills and value the collaborative effort in working with others.

The communication major is designed to provide a strong background for entrance into a variety of professions as well as graduate study. The study of communication enhances an individual's ability to interact with others on both a personal and public level.

To declare a major in communication, students must complete COM 205 with a grade of C or better.

### Course of Study

- A. A major in communication consists of at least 39 credits in communication including:
1. Core courses: COM 205, 201, 211, 301, 431.
  2. At least 12 credits from the following: COM 203, 250, 260, 311, 315, 331, 360, 380.
  3. At least 12 credits from the following: COM 302, 305, 307, 309, 310, 332, 333, 340, 403, 405, 410, 490, X99.

Grade Point Average: To have a major in communication approved for graduation, a student must have a minimum cumulative GPA of 2.50 in courses selected by the student to satisfy the major.

- B. A minor in communication consists of at least 24 credits in communication courses including:
1. Core courses: COM 201, 211 and 301.



2. Students will take 12 credits from any other communication department offerings.

Teacher Certification: Student seeking teacher certification with a communication major or minor must take COM 460. Major = 36 credits. Minor = 24 credits.

## Course Descriptions

### COM 101 Introduction to Communication. 3 cr.

An introductory communication course designed to develop an understanding of the basic principles of the field of human communication. Topics covered will include the fundamentals of communication, interpersonal communication, group communication, and mass communication. Emphasis is on inquiry, organization, and delivery used in a variety of communication experiences. A minimum grade of C or better is required to satisfy the general degree requirements. Not applicable to the major or minor in communication.

### COM 201 Introduction to Professional Communication. 3 cr.

The purpose of this course is to equip students with skills in business and résumé writing, interviewing, oral presentations, and work relationships. This course is also designed to better prepare students for performance in COM 301 Professional Communication. Prerequisite: COM 101 with a grade of C or better.

### COM 203 Introduction to Mass Communication. 3 cr.

An historical overview of various individual mass media technologies and the industries that grew up around them. Emphasis on the social, cultural, economic, ethical and political impact of the mass media.

### COM 205 Research Methods in Communication. 3 cr.

An introduction to research methods used in the communication discipline. An overview of methods and techniques used for systematic observation of communication behavior. Students will complete a research project. (COM majors/minors must get a C or better) Prereq: COM 101.

### COM 211 Small Group Communication. 3 cr.

A study of procedures, processes, and dynamics of small groups. Students engage in small group projects throughout the semester to gain understanding and experience in small group theory and behavior. Prereq: COM 101.

### COM 250 History and Criticism of Public Address. 3 cr.

An historical and critical study of public discourse in a variety of forms. This course is designed to enable students to understand the impact and influence of this practical art form on belief and action of receivers. Prereq: COM 101.

### COM 260 Interpersonal Communication. 3 cr.

Investigation of and experience with communication that facilitates the establishment and maintenance of effective personal relationships. Prereq: COM 101 and COM 205.

### COM 301 Professional Communication. 3 cr.

An advanced public speaking course designed to provide students with a higher level of expertise in the area of business and professional communication. Business presentations, including

technical, proposal, and sales presentations will be practiced along with courtesy and commemorative speeches. Prereq: COM 201.

### COM 302 Writing for Mass Communication. 3 cr.

Creating, designing, and editing of print, radio, and television news stories; newspaper and magazine feature articles; and print, audio, and video advertising copy. Prereq: ENG 101

### COM 305 Family Communication. 3 cr.

This course looks at how we develop, maintain, enhance, or disturb family relationships through communication. Prereq: COM 101.

### COM 307 Communication and Gender. 3 cr.

Communication and Gender is designed to integrate theory and practice in the study of gender as a communication variable. Gender similarities and differences will be examined in the context of interpersonal and professional relationships. Prereq: COM 101.

### COM 309 Intercultural Communication. 3 cr.

A study of the complexity of communication in the intercultural setting. This course looks at the roles of context and power in intercultural interactions from a variety of perspectives. Prereq: COM 101.

### COM 311 Listening. 3 cr.

Analysis of the nature, process, barriers to and improvement of listening skills. Speaker, listener, location, and message variables as related to comprehension are discussed. Prereq: COM 101.

### COM 315 Persuasive Communication. 3 cr.

Study of persuasive messages from the viewpoint of both sender and receiver. Prereq: COM 101.

### COM 331 Principles of Public Relations. 3 cr.

An introduction to the principles of public relations including history, ethics, theory, concepts, uses, techniques, and practice. Prereq: COM 101

### COM 332 The Practice of Public Relations. 3 cr.

An advanced study of public relations strategies emphasizing program development and crisis communication. Tactics will include press release series, fact sheets, speechwriting and delivery, writing and editing for public relations publications, and special events planning. Prereq: COM 331.

### COM 333 Leadership and Communication. 3 cr.

Leadership competence is the product of communication competence. This course looks at the different approaches to leadership, leadership traits, leadership and team member communication styles, ethical responsibilities of leaders, and the Christ-like model of servant leadership. Prereq: COM 101.

### COM 340 Health Communication. 3 cr.

Health Communication is a diverse field devoted to communication as it is used to provide health care and promote public health. This course will include topics from areas of communication research including interpersonal, intercultural, group, organizational, and mass media. We will expand, explore and apply students' knowledge of communication skills and theories by designing a public health campaign.

**COM 360 Communication and Conflict. 3 cr.**

A study of the relationship and the process of human conflict. Conflict within families, personal relationships, and business settings with strategies for management. Prereq: COM 101.

**COM 375 Creativity and Communication. 3 cr.**

Creativity and Communication critically examines theories of creativity, the creative process, how the brain produces creative ideas, creative collaboration, and the impact of constraints, attitude, and environment on one's personal creative expression. This course also explores creativity from a Christian perspective, recognizing that people were formed in the image of their Creator. Prereq.: Junior or Senior standing.

**COM 380 Non-Verbal Communication. 3 cr.**

An introduction to non-verbal communication in everyday interaction. Emphasis on reading, observation, analysis, and presentation of research through individual and group projects. Prereq: COM 101.

**COM 403 Issues in Contemporary Mass Communication. 3 cr.**

This course addresses from a Christian perspective the cultural, ethical, and moral issues faced by those in the field of mass communication as they link the mass media and American society. Prereq: declared COM/CAR majors and minors.

**COM 405 Sports Communication. 3 cr.**

An advanced study of mass and interpersonal communication in the field of sports. Emphasis in the critical analysis of written and broadcast sports communication, the history of sports communication, and interpersonal communication in sports including coaching and athlete interaction. Prereq: declared COM/CAR majors and minors

**COM 431 Senior Seminar in Communication. 3 cr.**

An integrative academic experience for communication majors in their final semester of study. Considered a senior capstone course where students demonstrate their communication competence. Required of all communication majors. Prereq: Senior standing.

**COM 460 Methods of Teaching Speech Communication. 2 cr.**

A detailed study of the special problems that face the teacher of oral communication. Includes special attention to the development and criticism of oral assignments and the operation and organization of co-curricular activities in forensics and debate. Open to COM majors and minors in elementary and secondary education certification program.

**COM 490 Internship. 1-3 cr.**

By arrangement with the department and Internship Coordinator.

**COM x91 Topics in Communication. 1-3 cr.**

Topics in Communication will be offered occasionally. Possible areas of study include argumentation and advocacy, communication and leadership, political communication, health communication, audio/visual production, etc. Prereq: COM 101 and declared COM/CAR majors/minors for topics courses numbered 491.

**COM 199-499 Independent Study. 1-3 cr.**

By arrangement with the department.

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## COMMUNICATIVE ARTS

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The communicative arts major is an interdisciplinary major including courses from both the humanities and social sciences divisions. The major is designed to equip students with the knowledge, ability, and skills needed for positions in professions such as public relations, advertising, sales, marketing, and arts administration. The major places emphasis on both classroom and practical experience.

Students majoring in communicative arts may not also major or minor in Art, Business Administration, or Communication.

### Course of Study

- A. A major in communicative arts consists of at least 58 credits, the equivalent of a major and a minor.
1. Core Courses: BUS 240, 250, COM 201, 211, 301, CAR 490, 498.
  2. Core Business Communication Track: BUS 182, 301, 352, COM 309, 333, ENG 303.
  3. Core Public Relations Track: ART 121, BUS 303, COM 302, 315, 331, 332.
  4. Business Communication Electives: ART 121, 122, 231, 242, BUS 181, 210, 220, 303, 342, 343, 347, 350, COM 250, 260, 302, 307, 311, 315, 331, 340, 360, 380,.
  5. Public Relations Electives: ART 122, 231, 303, 304, 240, 241, 242, BUS 210, 301, 342, 343, 347, 352, COM 250, 260, 307, 309, 311, 315, 333, 340, 360, 380, ENG 303.
- b. Grade Point Average: To have a major in communicative arts approved for graduation, a student must have a minimum cumulative GPA of 2.50 in courses selected by the student to satisfy the major.

### Course Descriptions

**CAR 490 Communicative Arts Internship. 1-6 cr.**

By arrangement with advisor

**CAR 495 Communicative Arts Practicum. 1-3 cr.**

A pre-professional clinical field experience in which students practice professional skills in a supervised setting.

**CAR 498 Senior Seminar in Communicative Arts. 2 cr.**

An integrative academic experience for communicative arts majors in their final semester of study. Considered a senior capstone course where students synthesize the knowledge gained from study in the disciplines which comprise the communicative arts major. Required of all communicative arts majors.

**CAR x91 Topics in Communicative Arts. 1-3 cr.**

Special topics courses in communicative arts. Prereq: declared Communicative Arts majors.

**CAR 199-499 Independent Study. 1-3 cr.**

By arrangement with advisor.

## COMPUTER SCIENCE (CSC)

Computer Science is the systematic study of data modeling and algorithmic processes for solving problems with computers. The theoretical study of concepts and methods as well as the analysis, design, and implementation of solutions involves the creative use and development of both quantitative and logical thinking skills at an abstract level.

Today computer and information technology is found everywhere from the home to the workplace. An educated person needs an understanding of computing concepts and a perspective of the potential, limitations, and social ramifications of computers. This includes being conversant on such issues as networking technologies, interoperability, human-computer interfaces, the object-oriented paradigm, security, cryptography, and the internet.

### Resources and Instruction

Wisconsin Lutheran offers a major and minor in computer science. The program aims to give students a broad understanding of both the theoretical and the applied areas of the discipline and to produce liberally educated graduates capable of solving problems and communicating effectively in diverse disciplines.

### Course Descriptions

- A. A major in computer science consists of at least 45 credits including:
1. Computer Science Core (19 credits): CSC 131, 231, 311, 321, 361, 471.
  2. Electives at least 12 credits selected from the following courses: CSC 250, 340, 373, 375, 390, 410, 481, MAT 361, 371 or PHY 215, 316.
  3. Senior Capstone Experience: CSC 485.
  4. Collateral Courses (11 credits): MAT 117 or 352; 221, 230.
- In addition to the required courses, computer science majors are encouraged to take Linear Algebra (MAT 233), Foundations of Mathematics (MAT 231), Web Design I & II (ART 242 & 342), and Electronics (PHY 315). One or more courses in Psychology, especially PSY 101 (Introduction), and PSY 211 (Experimental Psychology) would also be beneficial.
- B. A minor in computer science consists of at least 30 credits including:
1. Computer Science Core (19 credits): CSC 131, 231, 311, 321, 361, 471.
  2. Electives at least 3 credits selected from the following courses: CSC 250, 340, 375, 390, 410, 481, MAT 361, 371 or PHY 316, PHY 215.
  3. Collateral Courses (8 credits): MAT 210 or MAT 221, MAT 230

### Course Descriptions

#### CSC 131 Introduction to Programming. 4 cr.

Introduction to a programming language. Fundamental problem solving concepts with an object-oriented language, elementary

and structured data types, sequence control, data control, human interfaces, and program debugging. Weekly programming projects.

#### CSC 231 Object Oriented Design and Software Dev. 3 cr.

This course develops skills based on real-world software development. Study of the object-oriented design paradigm and software development processes. The semester is spent designing and implementing a major project starting with requirements and working through implementation, final testing and delivery. There are also several short papers and a classroom presentation. Prereq: CSC 131 or consent of instructor.

#### CSC 250 Internet Programming. 3 cr.

This course focuses on web technologies, especially server-side programs, client-side scripts and the concept of applets. On the server-side, it covers file management and common server architectures. It also covers web protocols, internet information servers, browsers and APIs (Application Programming Interfaces), database-driven websites, security issues and firewalls. Students will implement several web-based applications. Prereq: CSC 231 or consent of instructor.

#### CSC 311 Data Structures. 3 cr.

Basic structures (arrays, object classes, queues, lists, stacks, etc.) in computer science, the application of these structures (sorting, searching, recursion, graph theory, etc) and algorithm efficiency. Weekly programming projects. Prereq: CSC 231 or consent of instructor.

#### CSC 321 Computer Organization. 3 cr.

Instruction and data representation, addressing, operations, program linkage, input/output, interrupts, traps, and basic assembly language programming for one microprocessor family. Several programming projects and a short research paper. Prereq: CSC 311 or consent of instructor.

#### CSC 340 Programming Languages. 3 cr.

This course surveys the history of programming languages and programming paradigms, including procedural, object-oriented, functional, declarative non-algorithmic, and scripting languages. It covers virtual machines and intermediate languages, and compares interpreters and compilers. Also covered are the topics of binding, scope, type-checking, garbage collection and security. There will be frequent programming assignments in a variety of important computer languages exemplifying each language type. Prereq: CSC 311 or consent of instructor.

#### CSC 361 Database Systems. 3 cr.

Organizing, processing, and administration of a database. Database models, data dictionary, file organization, query languages (SQL), security, integrity, and reliability. Hands-on use of a DBMS (DataBase Management System). Several programming projects using SQL, Java, Perl, Python and C++. There will also be a short research paper and presentation. Prereq: CSC 311 or consent of instructor.

#### CSC 373 Introduction to Cryptography. 3 cr.

An introduction to the field of classical and mathematical cryptography. Topics include linguistic techniques and classical cryptographic methods, key exchange protocols, public key cryptography, factoring techniques and primality testing, digital signatures, hash functions,

secret sharing schemes, and relevant number theoretic methods. Prereq: sophomore standing and MAT 222 or MAT 230. This course is cross-listed with MAT 373.

**CSC 375 Operating Systems. 3 cr.**

A study of computer operating system principles. Topics include threads, processes and protection, synchronization and deadlocks, memory management including virtual memory, file systems, distributed systems, messaging, and security. There will be several programming assignments and a short research paper. Prereq: CSC 311 or consent of instructor.

**CSC 410 Computer Graphics. 3 cr.**

An introduction to the techniques, concepts, algorithms, and data structures used in computer graphics and computer imaging. We will study vector tools, transformations, polygonal meshes, three-dimensional viewing, curve and surface design, color theory, hidden surface removal and ray tracing. There will be frequent programming assignments using a standard graphics API (Application Programming Interface – typically OpenGL). Prereq: CSC 311 or consent of instructor.

**CSC 471 Data Communication. 3 cr.**

The physical basis for communication, modulation techniques, synchronous and asynchronous transmission, analog and digital signaling, multiplexing, hardware and software, networks and protocols, and design considerations. Prereq: CSC 311 or consent of instructor.

**CSC 481 Artificial Intelligence. 3 cr.**

History and application of AI, knowledge representation, control strategies and reasoning. Techniques of search, data-driven programming, frames, production-rule systems, and logic programming. Major project required. Prereq: CSC 311 or consent of instructor.

**CSC 485 Senior Capstone Experience. 3 cr.**

This capstone experience is designed to survey important areas computer science not specifically covered by the curriculum. This includes ethics, human interface design, automata theory, and topical subjects as appropriate such as agile development processes, net neutrality, or internet censorship. Students will complete and present a major project in consultation with the instructor. The project could be a research paper or a programming project. There will also be several short research papers and presentations. Prereq: senior standing and consent of instructor

**CSC 490 Internship. 1 - 3 cr.**

By arrangement of department.

**CSC x91 Special Topics. 1-3 cr.**

Selected advanced topics in Computer Science. Content varies. Course may be taken for credit more than once with different topics. Possible topics include Robotics, Event Programming (Windows), Computer Games, Computational Linguistics or others. Offered as needed. Prereq: consent of instructor.

**CSC 199-499 Independent Study. 1 - 3 cr.**

By arrangement of department.

## DIGITAL CINEMA AND MEDIA (DCM)

The Digital Cinema Productions major at WLC is an interdisciplinary major to prepare students for careers in digital cinema production. This course of study explores the complexities of digital media making. The curriculum is a program of study from several academic disciplines that are combined with practical creative work in digital cinema. Students will gain skills in digital media creation, production and distribution. Additionally, students will gain experience in digital cinema creation, writing, acting and directing, pre and post production/editing, management and distribution. The electives give students the flexibility to focus on their area of interest whether on screen or behind the camera.

A. A major will consist of 54 credits including 27 core credits and 27 elective credits.

1. Core courses: BUS 240; DCM 241, 242, 341, 342, 431, 432, THR 201, 210, 315.
2. At least 27 credits of electives from the following: ART 121, 242, 342, 240, 241, 251, BUS 210, 250, 347, COM 203, 211, 201, 301, 331, 332, DCM 195, 243, 300, THR 101, 234, 310, 410, 412.

The Digital Cinema and Media minor provides a foundation for students majoring in another area to receive DCM training they will need in today's technological world.

B. A minor will consist of 24 credits. There are 12 credits of core courses:

1. Core: DCM 241, 242, 341, 342
2. At least 12 credits of electives from the following: BUS 240 DCM 195, 243, 300, 344 COM 203, 211, 201, 301, 331, 332 ART 121, 242, 342, 240, 241, 251 THR 101, 201, 210, 234, 310, 315, 410, or 412

B. No courses can be applied to other minors...no course can be double dipped to create double majors.

### Course Descriptions

**DCM 195 Practicum. 1- 3 cr.**

Credit is earned through significant involvement in cinema or digital projects on WLC campus. Positions are designated by faculty as approved practicum opportunities for a given project.

**DCM 241 Introduction to Digital Media. 3 cr.**

An introductory course in film style production and digital media. The course will include instruction in all aspects of production including videography, lighting, sound, and editing. Students will perform a variety of exercises including image composition, on camera interview technique, and producing a movie scene. In addition students will have experience with live multi-camera production. Prereq: None.

**DCM 242 Digital Editing and Post Production. 3 cr.**

This course will concentrate on the importance of digital story telling through the art of editing. Students will learn how to edit sequences in order to strengthen the story being told. Exercises in the course will

include digitizing, creating a time line, working with digital effects, enhancing the audio, adding music, cutting sequences, authoring, DVD and other format creating, and distribution. Prereq: DCM 241.

**DCM 243 Screenwriting. 3 cr.**

An introduction to content, styles, and formats of scripts and screenplays. Instruction will concentrate on the development of an idea, pitching the idea, creating plot lines, writing the treatment, structuring the three acts of a screenplay, and writing the script. Students will create, and event production will be studied and explored. Prereq: DCM 241 and DCM 242 develop and write a twenty-page script in an appropriate format. Prereq: DCM 241.

**DCM 300 Studio Experience 3 cr.**

A comprehensive course in a working movie studio. From concept through development, shooting scenes, students take on a variety of crew positions as part of a team to shoot an upcoming film or other digital product. Prereq: DCM 241.

**DCM 341 Feature Production. 3 cr.**

This course will build on basic production techniques concentrating on lighting and diffusion including the uses of flags, cookies, gels, and scrims. Training in camera placement and movement will illustrate how production can be enhanced by proper use. Skills in live events, sports and events production will be studied and explored. Prereq: DCM 241 and DCM 242.

**DCM 342 Digital Media and Directing. 3 cr.**

Students will develop, write, direct and edit a ten-minute digital artifact. Emphasis will be spent on the skills needed to direct talent for the camera and cinematography. Editing and post production skills will also be enhanced in this course. Prereq: DCM 241 and DCM 242.

**DCM 344 Media and Entertainment Business 3 cr.**

An overview of the business side of filmmaking, production and distribution of media. This course will provide students with an understanding of the role of the producer, freelancer, and corporate media director and how to distribute completed media effectively to audiences. Prereq: DCM 241, DCM 242, DCM 341.

**DCM 431 Digital Cinema & Media Prod. Capstone 1. 1.5 cr.**

Students will develop, write, pre-produce, storyboard, and schedule the production of a twenty to thirty minute feature production. Required of all DCM majors. Prereq: DCM 241, 242, 243, 342, 341. Declared DCM majors

**DCM 432 Digital Cinema & Media Prod. Capstone 2. 1.5 cr.**

Students will produce, shoot, edit, market and screen a feature production. Required of all DCM majors. Prereq: DCM 431. Declared DCM majors

**DCM 490 Internship 3 cr.**

An off-campus cinema or media experience different than the Practicum.

## EARTH-SPACE SCIENCE (ESS)

### Environmental Science

Environmental Science offers students a variety of scientific perspectives on environmental issues. This course of study will provide the opportunity for students at Wisconsin Lutheran College to focus on the growing interfaces of biology, chemistry, and earth science as applied to the environment. Wisconsin Lutheran College provides an environment in which a student can study the complexities of creation in a classroom where God's intricate design can be recognized as such. The study of the environment and the relationship that humans have with the environment and with each other regarding environmental issues will be addressed from a Christian perspective. This major will help prepare students to be active in society as stewards of God's creation. The environmental science major differs from the environmental studies major in that it requires greater depth in science. The environmental science major also has an interdisciplinary nature, but the major allows students to choose a direction within the science disciplines in the elective options.

### Course of Study

The environmental science major requirements are comprised of 39 credits of interdisciplinary core courses and 8 credits of electives.

1. Core courses: ESS 182, 300, 498, CHE 161, 162, 210, BIO 201, 202, 380, and POL 200 or 202.
2. At least 8 credits from the following: BIO 283, 310, 321, 322, 324, 438, 481, CHE 221, 222, 228, 310, 410, COM 331, PHI 316, any Physics course.

### Environmental Studies

Environmental studies offers students a variety of scientific, social, economic, and political perspectives on environmental issues. This course of study will provide the opportunity for students at Wisconsin Lutheran College to focus on the growing interfaces of biology, chemistry, earth science, and society as applied to the environment. Wisconsin Lutheran College provides an environment in which a student can study the complexities of creation in a classroom where God's intricate design can be recognized as such. The study of the environment and the relationship that humans have with the environment and with each other regarding environmental issues will be addressed from a Christian perspective. This major will help prepare students to be active in society as stewards of God's creation. The interdisciplinary nature of the major provides the opportunity for students to focus in an existing discipline with an emphasis in business administration, communication, philosophy, or history.

### Course of Study

The environmental studies major requirements are comprised of 27 credits of interdisciplinary core courses and 18 credits of electives.

1. Core courses: ESS 182, 300, 498, CHE 161, BIO 201, 380 and POL 200 or 202.
2. At least 6 credits from the following: BIO 202, 283, 438, 481, CHE 162, 210, COM 331, PHI 316, PHY 101.
3. At least 12 additional credits from the following disciplines:

Business Administration, Communication (not including COM 101), History, or Philosophy.

## Course Descriptions

### ESS 182 Environmental Science. 4 cr.

A study of natural resources and basic concepts of ecological biology. The physical and biological aspects of the earth's ecosystems will be studied in light of today's environmental problems. This course includes extensive field study in the Milwaukee area and makes use of environmental impact assessment as an application of concepts learned in the course. 3 lec., 3 hrs. lab.

### ESS 300 Geomorphology. 4 cr.

This course will focus on the study of earth surface processes in geological environments. Topics will include: weathering, erosion, nutrient cycles, sediment production, and landforms. Laboratory exercises will include topographic map interpretation and instruction in geographical information systems (GIS) with an emphasis on environmental applications. 3 lec. 3 hours lab; Prereq: ESS 182 or consent of instructor.

### ESS 490 Internship. 1 - 3 cr.

By arrangement of department.

### ESS x91 Special Topics. 1 - 3 cr.

In-depth study of advanced topic in environmental science. Prereq: varies with topic. May be repeated for credit with a new topic.

### ESS 498 Undergraduate Research. 1-3 cr.

Students arrange for independent research with a faculty research advisor. Students are encouraged to repeat this course with their research advisor. However, no more than 3 credits may be applied toward the major. Work may be carried out off campus with permission of the advisor. Written report required. If two or more credits are received, an oral presentation is also required. Prereq: Consent of instructor.

### ESS 199-499 Independent Study. 1 - 3 cr.

By arrangement of department.

## EDUCATION (EDU)

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The professional sequence in teacher education at Wisconsin Lutheran College is designed with attention to both the theoretical and practical dimensions of the teaching profession. Study about teaching is combined with actual observation, tutoring, teaching, and other clinical-laboratory experiences. Wisconsin Lutheran College has approval of its program in teacher education from the Department of Public Instruction, State of Wisconsin. Students who complete the professional teacher education requirements are eligible for licensure to teach in grades PK-6 (early childhood/elementary - developmental stages of early childhood through middle childhood), 1-9 (elementary/middle school - developmental stages of middle childhood through early adolescence), or 6-12 (middle and high school - developmental stages of early adolescence through adolescence). Some programs such as music, art, and foreign language offer licenses grades PK-12 - wide range (early childhood through secondary developmental stages or early childhood through adolescence.) Students should contact the

director of teacher education for further information.

Any student may apply for admission to the School of Education at WLC upon completion of one year of full-time study or 32 credits as a part-time student at a 2.50 grade point average or higher. Students planning to enter the Teacher Education Program must submit supporting documents for approval by the School of Education and the student's major and minor departments. Students must have passing scores on the Pre-Professional Skills Tests (Praxis I) and a listening test as mandated by the Department of Public Instruction before they can be accepted into the School of Education. The exit GPA is 3.0 in the major, minor and/or professional sequence. The Praxis II must be taken and passed prior to making application for teacher candidacy. If scheduled to teach in spring, Praxis II test scores must be received by October 15th for the spring semester and April 15th for fall semester. Consult the [www.ETS.org](http://www.ETS.org) for the specific test required of major area.

Transfer students must submit college transcripts with appropriate test score and grade information and meet the above criteria prior to enrollment in any 300-level EDU course. They also need to sign a consent form allowing for investigation of the previous educational course work and clinical experiences along with supporting documents, the transfer student must participate in the admission process to the School of Education.

All WLC teacher education students must complete a disclosure questionnaire prior to participating in field work and student teaching. A background check is required. Education students must submit a general health form (including TB test) prior to clinical experiences and specifically teacher candidacy.

## Course of Study

- A. General Education Requirements: Students must satisfy the general education requirements for the bachelor of arts or the bachelor of science degrees. The requirements of the department from which the teaching major is selected must be fully met as described on the approved audit form. If a minor is selected, all departmental requirements for a minor must be satisfied also on an approved audit form. In addition, specific requirements for teaching from each department must also be met.
- B. Early Childhood Major (early childhood to middle childhood)
  1. Major: Each student must complete an approved early childhood education major which is nested in the liberal arts studies as outlined on a designated list of courses. This permits the student to teach in early childhood/elementary classrooms grades PK - 6.
  2. Minor: Each student is encouraged to complete a minor.
- C. Elementary Major (middle childhood to early adolescence):
  1. Major: Each student must complete an approved elementary education major which is nested in the liberal arts studies as outlined on a designated list of courses. This permits the student to teach any subject in a self-contained class in any grades, 1 through 8, and language arts, mathematics, science, social science and health in a departmentalized pattern.
  2. Minor: Each student must also complete a minor area

such as: art, biology, chemistry, communication, German, English/language arts, history, mathematics, music, psychology, social studies, natural science, Spanish, theatre, or coaching. Students are highly encouraged to select a minor in one of the four core subject areas.

#### D. Secondary Education Major (early adolescence to adolescence)

1. The Teaching Major: Each secondary education student must complete an approved teaching major in one of the following academic areas: art, broad field language arts or social sciences, biology, chemistry, communication, English, German, history, mathematics, music, psychology, Spanish, or theatre.
2. The Teaching Minor: The student may also complete a teaching minor in one of the following academic areas: biology, chemistry, coaching, communication, English/language arts, German, history, mathematics, physics, psychology, Spanish, or theatre.

#### E. Special Education Major

This Cross-Categorical Special Education Major seeks to prepare candidates to utilize a variety of theoretical and research based practices to enable students with disabilities to reach their full potential. Moreover, candidates gain experience in the varied settings and roles of the special educator, including expanding consulting and collaborative roles in the inclusive classroom. The major allows candidates to complete all the coursework for certification as a special education teacher in cross-categorical special education (801). The major requires the completion of a concentration in one of three areas of emphasis in specific learning disabilities (SLD), emotional/behavior disorders (EBD), or cognitive disabilities (CD). offered at the present time.

#### F. Adaptive Education Minor affords students the opportunity to develop knowledge and skills in the nature of the learner, the learning process and appropriate inclusive learning environment. In effect an educator with this background could be considered a learning strategist who models and implements special interventions in his or her classroom or in a shared classroom experience. This is an elective minor for all levels of education. Elementary education majors must still complete a subject-area minor.

1. The coursework of the program consists of 21 credits: PSY 101,230; EDU 311, 316, 345, 351, 352, 360,403.
2. A practicum of 2-3 credits at the appropriate developmental level: EDU 484

NOTE: All of the coursework listed for the completion of this minor, with the exception of EDU 345 and 484, are currently offered in the EDU program.

#### G. Learning Disabilities Minor

1. The coursework of the program consists of 24 credits: EDU 316, 345, 351, 352, 353, 357, 403, 405, 484.

#### H. Professional Sequence

##### 1. Early Childhood Education

- a. The certification program consists of 44 credits in major course work: EDU 201, 210, 221, 311, 312, 314, 315, 316, 324, 327, 328, 330, 332, 333, 402, 431, 451, 493.
- b. The program includes 8 credits of clinicals: EDU 292, 382, 383, 390, 391, 392, 396, 492.
- c. At least 7 electives credits, including a practicum.
- d. 12 credits in teacher candidacy: EDU 495 and 496.

##### 2. Elementary Education Major

- a. The certification program consists of 35 credits in course work: EDU 201, 210, 221, 311, 323, 324, 327, 328, 332, 333, 402, 431, 451, 493.
- b. The program includes 8 credits of pre-student teaching clinicals EDU 292, 390, 391, 392, 394, 396, 492.
- c. At least 5 elective credits.
- d. 12 credits in teacher candidacy: EDU 495 and 496.

##### 3. Secondary Education Major

- a. The certification program in consists of at least 30-32 credits in course work: EDU 201, 210, 221, 311, 323, 332, 341/342, 402, 431, 451, 493.
- b. The program includes 6 credits of pre-student clinicals EDU 292, 393, 394, 395, 397, 492
- c. Corresponding methods course and clinical from: 324, 327, 328, 333.
- d. At least 5 elective credits.
- e. 12 credits in teacher candidacy: EDU 495 and 496.

##### 4. (Art/Music/Foreign Language/Theatre) Education Major Wide Range (PK -12 / Birth to 21 years)

- a1. The certification program for Art/Theatre/Foreign Language consists of at least 30 credits: EDU 201, 210, 221, 311, 323, 332, 342, 343, 402, 431, 451, 493.
- a2. The certification program for Music consists of at least 30 credits: EDU 201, 210, 221, 311, 323, 343, 402, 431, 451, 493, MUS 322, 323/324.
- b1. (Art/Theatre) The program includes 6 credits in clinicals: EDU 292, 385, 393, 394, 397, 492.
- b2. (Foreign Lang.) The program includes 6 credits in clinicals: EDU 292, 385, 393, 394, 397, 492.
- b3. (Music) The program includes 7 credits in clinicals: EDU 292, 385, 393, 394, 395, 397, 492.
- c. (Art/Music/For. Lang./Theatre) At least 2 credits in electives.
- d. 12 credits in teacher candidacy at all 3 levels - middle childhood/early adolescence, adolescence - EDU 495, 496.

##### 5. Special Education Major

- a. This major is to be taken in conjunction with a EDU major in MC/EA or EA/A with a subject area major.
- b. A content area minor is required with the MC/EA (Elementary Education) major.
- c. A content area major is required with the EA/A (Secondary Education) major,

- d. The coursework of the program consists of 38 credits: PSY 101,290; EDU 311, 376, 345, 351, 352, 353, 355, 357, 360, 403, 405, 484, 485.
- 1.. EDU 484: A practicum of 2 credits at the appropriate developmental level in the area of cross-categorical special education.
  2. EDU 485: A practicum of 2 credit at the appropriate developmental level in the area of concentration (SLD), (EBD), or (CD).
- G. Collateral Requirements (many of which fulfill general education requirements)
- a. ESS 182, an American History course, PED 200, POL 200 or 202, a Non-Western Course.
  - b. One of ART 121, ART 122, MUS 100, THR 101, 201 or 210.
- H. Fieldwork: The clinical experiences are developmental in scope and sequence, occurring in a variety of settings. They consist of observations, interviews and participation in numerous instructional activities. Documentation is required as outlined in the *Teacher Education Handbook*. Field hours are designated for certain EDU courses in the professional sequence. Consult Appendix C of the *Teacher Education Handbook*.
- I. Evaluation of Performance Leading to Licensure: Faculty of the School of Education exercises professional judgment in evaluating the performance of course work, the clinical experiences, and portfolio preparation. This evaluation emphasizes performance evidence of the knowledge, skills and dispositions (including moral and ethical considerations) identified as essential for a qualified beginning educator. National subject area standards, INTASC standards, NBTS standards, and Wisconsin DPI standards also provide foundation for assessment of performance. Consult the *Teacher Education Handbook* for the requirements at each stage of progress through the program.

## Course Descriptions

### **EDU 201 Education in a Diverse Society. 3 cr.**

The organization, administration, special programs, and financing of education which reflect current social issues and project the future of education.

### **EDU 210 Educational Psychology. 3 cr.**

This course introduces the psychological principles, theories, and methodologies related to issues of education, teaching, and learning in schools. Special emphasis is placed on child through adolescent cognitive, linguistic, socio-emotional, physical, and spiritual development. As well as the nature of learning within the context of the developing student in the classroom. Principles of Christian life and servant-leadership are integrated throughout the course. Offered every semester

### **EDU 221 Instructional and Classroom Management Strategies. 2 cr.**

An examination of the objectives, materials, and methods of teaching on the elementary/middle and middle/secondary level. Includes

preparation of units, demonstration, observation, and participation in instructional laboratory experiences geared for the respective elementary/middle or middle/secondary levels. Field work included: concurrently enroll in EDU 292.

### **EDU 222 Instructional Technology. 2 cr.**

For the prospective teacher who desires to explore more innovative technological applications and software; off-campus investigation of technology in practice; demonstration and/or presentation of findings required. Prereq: EDU 201 and 221 or consent of the Director of Teacher Education.

### **EDU 223 Teaching in the Religious Setting. 2 cr.**

Methods, curriculum and materials to support educators who take an active role in church, Bible study, and evangelism programs such as VBS and Sunday School; an overview of appropriate teaching practices for Bible history, catechism, and hymnology in an integrated format. Fieldwork may be included.

### **EDU 280 Topics in Instruction. 1-3 cr.**

Special topics in education and instruction techniques will be taught occasionally. Possible areas of study include environmental education, specific exceptional education areas, cooperative learning, and collaborative instruction. Prereq: EDU 221 Field work may be included.

### **EDU 311 Educating the Exceptional Individual. 3 cr.**

Study of individuals who have exceptional educational needs as defined by the state, the unique characteristics of the various disability areas, alternatives to providing the least restrictive educational environment, methods for teaching such children in the regular classroom, and the use of special referral systems and processes. Prereq: EDU 210 and admission to School of Education or consent of the Director of Teacher Education.

### **EDU 312 Instructional Strategies: Birth - 8. 3 cr.**

An examination of a developmentally appropriate program planning: the leading models of ECE and the published curricula to facilitate the diverse needs of young children. Both a linear and integrated study of math, science/environmental science, social studies, art, and music are researched. Guidance and the development of social/emotional competence coupled with an anti-bias and multicultural lens are also explored as integral to the learning environment. Field work required: concurrently enroll in EDU 382.

### **EDU 314 Assessment Early Education. 2 cr.**

Introduces the purpose of assessment and evaluation methods with developmental considerations and procedures that frame standardized and alternative assessments in early childhood. Focus is given to designing the environment, to play observation, and to intervention as a significant and developmentally appropriate form of assessment.

### **EDU 315 Wellness and Movement. 1 cr.**

A study of movement experiences for the early childhood classroom. Identifies curriculum (health, nutrition, and fitness) strategies, and resources that are developmentally appropriate. Emphasis is given to the preschool and early elementary levels with integration to the classroom. Kindergarten field work included.

### **EDU 316 Home/School/Community Partnerships. 2 cr.**



A study of the relationship between children, families, schools, and the community. The course focuses on family structures and social factors that influence them. Emphasis will be given to developing partnership programs, techniques of communication between home and school, methods of actively engaging families in the school, and the use of community resources to benefit family and school interaction. Field work required: students concurrently enroll in EDU 417.

**EDU 319 Seminar: Topics in Early Childhood Education. 1-3 cr.**  
Specialized programs offered to utilize the expertise of EC educators available as guest instructors or to complement the core program by addressing timely issues of concern for ECE programs. Includes topics appropriate for recertification and staff development.

**EDU 320 Teaching Multi Intelligences. 2 cr.**  
Study of methods and materials integrating multiple intelligence theory in the classroom. Emphasis placed on addressing the unique needs of visual-spatial, musical, and bodily-kinesthetic learners through the integration of music, movement, and the visual arts in the core subject matter.

**EDU 323 Instructional Strategies: Middle School. 3 cr.**  
This course examines middle school structure, models of curriculum integration, and methods. In addition, participants examine physical, intellectual, and socio/emotional development issues are integrated as essential components of middle school instruction. Field work included: concurrently enroll in EDU 394.

**EDU 324 Teaching Social Studies. 2 cr.**  
An examination of the objectives and techniques of teaching social studies on the elementary/middle school level including study of service learning, curriculum materials, methods, assessment, and evaluation. Prereq: EDU 221 and admission to School of Education or consent of the Director of Teacher Education. Field work included: students concurrently enroll in EDU 390.

**EDU 326 Teaching Health. 1 cr.**  
Study of methods, materials and content of elementary/middle school health programs. Areas stressed include critical health issues concepts and environmental concerns which interrelate the positive relationship between health knowledge and practice and integrate with core subjects. Prereq: EDU 221 and admission to School of Education or consent of the Director of Teacher Education.

**EDU 327 Teaching Science. 2 cr.**  
An introduction to teaching the content and processes of science in the elementary/middle school. Included are the components of good science education: the nature of problem solving, scientific knowledge, and the interactions of science, technology, and society. Methods and strategies of teaching science will be studied and practiced. Students will play an active role in sharing their activities and will practice teaching techniques. Attendance at an environmental science education workshop is required. Students are also responsible for basic science content. Field work included: students concurrently enroll in EDU 391.

**EDU 328 Teaching Mathematics. 3 cr.**  
Content and methods of teaching mathematics to middle childhood through early adolescent students. Curricula, lesson preparation,

and the context for learning are emphasized within the framework of national/state standards. Problem-solving, the use of technology, assessment, and an action research model are included. Field work included: students concurrently enroll in EDU 392. Prereq: a college math course, EDU 221, and admission to School of Education or consent of the Director of Teacher Education.

**EDU 330 Emerging Literacy 1. 3 cr.**  
A study of the ways children from infancy through grade 5K develop as oral language users, readers, and writers. Emphasis is given toward classroom organization, curriculum design, instructional strategies, and home/school collaboration to support children's literacy learning. Field work required: concurrently enroll in EDU 383.

**EDU 332 Models of Teaching Writing. 2 cr.**  
A study of the methods at the elementary and middle/secondary levels as applied to the content areas. Students examine the theories, methods, and instructional techniques informing each methods.

**EDU 333 Emerging Literacy 2. 3 cr.**  
A study of the nature and process of reading, instructional procedures for developing reading skills (phonological awareness, letter/sound relationships, spelling patterns, word meaning and structure), comprehension, reading and writing workshop (whole, small, and individual work), reading intervention models, language development and handwriting. Field work required: concurrently enroll in EDU 396.

**EDU 334 Reading Interests: Middle Childhood. 2 cr.**  
Study of the story interests of children; emphasis on interactive strategies involving content area applications and processing through social and affective responses; correlation of literature as instructional, enjoyable and bibliotherapeutic. Prereq: Admission to School of Education or consent of the Director of Teacher Education.

**EDU 335 Reading Interests: Pre-Adolescent and Adolescent. 2 cr.**  
Study of reading interests of the young adult: grades 6 and above; examination of historical development, current trends, and characteristics of young adult literature; analysis and investigation of the present reading, viewing and listening habits of adolescents; evaluation of such from the Christian perspective emphasized. Prereq: Admission to School of Education or consent of the Director of Teacher Education.

**EDU 341 Instruction Strategies in the Minor. 2 cr.**  
A practical examination of the objectives, methods, skills, curriculum for teaching in the minor areas. Includes study of activity learning, materials, development and implementation of curriculum, evaluative methods and instructional strategies employed in the teaching of the minor. Prereq: EDU 221 and admission to School of Education or consent of the Director of Teacher Education. (Primarily intended for middle or middle/secondary level minors.) Field work included: students concurrently enroll in EDU 395.

**EDU 342 Instruction Strategies in the Major. 2 cr.**  
A practical examination of the objectives, methods, skills, curriculum for teaching in the major areas. Includes study of activity learning, materials, development and implementation of curriculum, evaluative

methods and instructional strategies employed in the teaching of the middle/secondary major. Prereq: EDU 221 and admission to School of Education or consent of the Director of Teacher Education. (Primarily intended for middle or middle/secondary level minors.) Field work included: students concurrently enroll in EDU 393.

**EDU 343 Early Childhood Methods for Wide Range Educators. 2 cr.**

This course focuses on the research that embodies the study of planning for developmentally appropriate curricula and classroom to support the physical, social/emotional, and cognitive/literacy development of children at the early childhood level. Emphasis is on applying such knowledge and skills to art, music, theatre, and/or foreign language. Activities develop specific capabilities and attitudes that anchor the academic foundation for school success. Innovative strategies and assessment for measuring learning in these disciplines are also included. Field work required (EDU 385).

**EDU 345 Instructional Strategies, Assessment, and Curriculum for Students with Learning and Behavior problems. 3 cr.**

The instructional content, research-based strategies, diagnosis, and evaluation of effective practice for responsive programming for special needs learners; addresses formalized individualized plans; focuses on systematic approaches and methods for selection, development, and maintenance of materials, environments and resources for optimum learning. Prereq: PSY 101, 230; EDU 210, 311, and admission to the Special Education Major or consent of the Director of Teacher Education.

**EDU 346 Instructional Strategies/General Music. 2 cr.**

A methods course in general music which will develop the skills and strategies needed in the instruction of general music from primary through secondary schools. Prereq: Admission to Music Education.

**EDU 347 Instructional Strategies/Choral. 2 cr.**

A methods course in choral music which will develop the skill and strategies needed in the instruction of choral music from primary through secondary schools. Prereq: Admission to Music Education.

**EDU 348 Instructional Strategies/Instrumental. 2 cr.**

A methods course in instrumental music which will develop the skills and strategies needed in the instruction of instrumental music from primary through secondary schools. Prereq: Admission to Music Education.

**EDU 349 Teaching Literature: Theory and Practice. 3 cr.**

A survey of adolescent literature and issues in selecting and teaching literature. Introduction to reader-response theory and the teaching of literature and writing. Prereq: Admission to the Teacher Education Program

**EDU 351 Strategies for Teaching Behavior-Challenged Learners 3 cr.**

A multi-faceted study of strategies that assist with developing a responsibility-oriented classroom; practice at clarifying and communicating expectations; establishing reasonable rules, logical consequences and problem solving; exploration of tools that guide a positive learning environment; focuses on those learners with additional challenges in behavior as a result of emotionally/behaviorally disabled or at risk characteristics. Establishing

skills developing a Functional Behavioral Assessment (FBA) and Behavioral Intervention Plans (BIP) are practiced. Prereq: EDU 311 and admission to the Special Education Major consent of the Director of Teacher Education.

**EDU 352 Introduction to Learning Disabilities. 2 cr.**

Study of the intervention and remediation techniques to assist learners in academic and social/behavioral areas; teaming and collaborative approaches are examined with emphasis on delivering appropriate programming and instruction for the learning disabled student in the inclusive setting. Prereq: EDU 311 and admission to School of Education, the Special Education Major or consent of the Director of Teacher Education.

**EDU 353 Intervention Strategies and Approaches for (LD, EBD, CD). 3 cr.**

A practical study in the observation and identification of reading and mathematics learning difficulties; emphasis is on designing informal assessments, interpreting formal assessments, and developing age-appropriate math and reading strategies, including tutorial assistance reinforcement and remediation strategies, and real-life applications. Components of Response to Intervention are utilized for optimum student learning. Prereq: EDU 311 and admission to School of Education or consent of the Director of Teacher Education.

**EDU 354 Gifted Learners. 2 cr.**

Exploration of various models which address the needs of the gifted/talented learner through extension or enrichment; study of the social, academic, and environmental issues confronting such learners. Prereq: EDU 311 and admission to School of Education or consent of the Director of Teacher Education.

**EDU 357 Collaborative and Assistive Technology. 3 cr.**

This class concentrates on two major topics: One, working with dynamic sharing and cloud computing and its implications and impact on education; and two, technologies used for assistive and remedial education. This is a project based, implementation-style course. Prereq: admission to the Special Education Major or consent of the Director of Teacher education.

**EDU 360 Student Motivation. 2 cr.**

Focus on the environmental issues, teacher strategies, and home partnership that are critical elements affecting student motivation; identification, cause and correction of underachievement. Prereq: EDU 311 and admission to School of Education or consent of the Director of Teacher Education.

**EDU 373 Urban Education. 2 cr.**

An immersion experience designed to assist qualified upper division teacher candidates explore high performing schools in an urban setting. Prereq: EDU 311, admission to the School of Education and consent of the director of CfUT.

**EDU 374 Urban Education Practicum. 1-3 cr.**

Students will participate in a one-semester clinical, internship position, or approved work-study program in an urban setting. Concurrently enroll in EDU 373.

**EDU 380 Special Topics. 1-3cr.**

**EDU 399 Practicum in Reading/Language Arts. 1-3 cr.**

By arrangement with the department.

**EDU 402 History and Philosophy of Education. 3 cr.**

A study of the precedents, problems, trends, and ideas which have shaped education throughout history into what we know and understand it to be today. Analysis of educational thought, philosophical trends, and current perspectives on the means, methods, and systems of education from early history to the present in Western civilization. Prereq: senior standing.

**EDU 403 Assessment and Evaluation for Academic Success. 3 cr.**

Examination of learning as informed through various forms of assessment; informal to formal, authentic to standardized-study of appropriate application for correction, grading, evaluation and assessment; emphasis on improvement of instruction. Assessment of exceptional learners, practical and ethical considerations, alternative assessments, including educational, behavioral, and psychological procedures. Prereq: Admission to the School of Education, senior status, and EDU 331 or consent of the Director of Teacher Education.

**EDU 404 Legal Topics for Teachers. 2 cr.**

Overview of critical court cases and laws that impact the daily lives of teachers; examination of resulting school policies, liability issues, and avenues of protection for students, parents and teachers under the law. Prereq: Admission to the School of Education and senior status or consent of the Director of Teacher Education.

**EDU 405 Special Education Law and Legal/Ethical Considerations . 3 cr.**

In-depth analysis of special education legislation, implementation trends on the state and local levels, and legal implications for faculty and staff; Examination, Development, and Assessment of individualized Plans; Focus on effective meeting protocols, communication, and conflict resolution. Prereq: admission to the Special Education Major or consent of the Director of Teacher Education.

**EDU 417 Directing Early Childhood Programs. 2 cr.**

Focuses on the defining facets of leadership (i.e. supporting children/colleagues/parents, ethics through the Christian lens), program and facility assessment, utilizing state and credentialing resource guidelines, staffing and professional development, as well as policy making, advertisement, and funding issues. Emphasis will be on identifying best leadership practices for urban and suburban childcare settings. Field work included (optional international field work).

**EDU 431 Content Area Literacy. 3 cr.**

Instruction in the teaching of reading and writing within the content areas on the elementary/middle/secondary level. Consideration of the nature of the learner, the readability and scope of content area materials, theories and methods of language arts curriculum, instructional techniques relating to continued literacy development within content areas, remediation and enrichment activities. Emphasis on the interactive processes of reading, writing and learning. Field work included: early adolescence/adolescence majors concurrently enroll in EDU 396.

**EDU 451 Human Relations for Educators. 3 cr.**

A study of human and intergroup relations; values, lifestyles, and

contributions of racial, cultural, and economic groups in American society; the forces of racism, prejudice, and discrimination. Prereq: Admission to the School of Education, and senior status or consent of the Director of Teacher Education. Includes structured field experience for those students who have not met hours as specified: students concurrently enroll in EDU 492.

**EDU 480 Special Topics. 1-3cr.****EDU 481 Early Childhood Practicum. 2 cr.**

Practical experience in a pre-kindergarten setting. Students spend a minimum of 90 hours, assisting and teaching in a range of cross-curricular instructional activities with a focus on literacy, classroom management and discipline. Practicum students are also required to attend an initial and mid-semester seminar held during the practicum with members of the education faculty who supervise practicum students and with candidate peers to discuss, compare, and analyze challenges, experiences and difficulties encountered in the classroom. Emphasis is also placed on connecting this classroom experience with the teaching profession. The seminar seeks to reinforce, through presentation and discussion, the “strands” of theory and practice that were integrated throughout the WLC teacher education program, connecting those to the Wisconsin State Teaching Standards.

**EDU 482 Kindergarten Practicum. 3 cr.**

Practical experience in a kindergarten setting. Students spend a minimum of 135 hours, assisting a range of instructional activities, focusing on areas of literacy, classroom management, and discipline. (Limited to EC/MC students who seek the additional licensure of MC/EA) Practicum candidates are also required to attend an initial and mid-semester seminar held during the practicum with members of the education faculty who supervise practicum students and with candidate peers to discuss, compare, and analyze challenges, experiences, and difficulties encountered in the classroom. Emphasis is also placed on connecting this classroom experience with the teaching profession. The seminar seeks to reinforce, through presentation and discussion, the “strands” of theory and practice that were integrated throughout the WLC teacher education program, connecting those to the Wisconsin State Teacher Standards.

**EDU 483 General Practicum. 1-3 cr.**

Practical experience in a general educational setting. Students spend a minimum of 45 hours per credit, assisting and teaching in a range of cross-curricular instructional activities with a focus on literacy, classroom management, and discipline.

**EDU 484 Practicum in Adaptive Education. 2-3 cr.**

Students spend a minimum of 45 hours/credit in an inclusive and/or special education setting, assisting with instruction, assessment and discipline in the area of primary licensure.

**EDU 485 Practicum in the Special Education Classroom. 2 cr.**

A practical experience in which students observe special education teachers, assist with small group instruction, and teach micro lessons in the major, focusing on their concentration in learning disabilities. Must be taken concurrently with EDU 352 or with consent of the Director of Teacher Education.

**EDU 199-499 Independent Study. 1-3 cr.**

By arrangement with the department and approved by the Director of

Teacher Education.

## Clinical Experiences

### **EDU 292 Clinical: Pre-admission . 1 cr.**

A practical experience in elementary, middle, or secondary schools in which students observe teachers, assist with small group instruction, interact in diverse learning environments, and teach a program lesson. Must be taken concurrently with EDU 221 or with consent of the director.

### **EDU 382 Clinical: Early Childhood Models. 1 cr.**

A practical experience in preschool classrooms which emphasizes foundational components in developing a developmentally appropriate program. Must be taken concurrently with EDU 310 or EDU 312 or with consent of the director.

### **EDU 383 Clinical: Literacy Early Childhood Education. 1 cr.**

A practical experience in primary classrooms which emphasizes curriculum development, lesson planning, and assessments in a developmentally appropriate program. Must be taken concurrently with EDU 330 or with consent of the Director of Teacher Education.

### **EDU 385 Clinical: Wide Range Educators. 1 cr.**

A practical experience in early childhood settings which emphasizes curriculum, instruction and assessments in a developmentally appropriate art, music, theatre, or foreign language class.

### **EDU 390 Clinical: Social Studies. 1 cr.**

A practical experience in the middle school setting which emphasizes the service learning component of the teacher education program; observation of classroom instruction and mentoring of middle school students in a service learning project. Must be taken concurrently with EDU 324 or with consent of the Director of Teacher Education.

### **EDU 391 Clinical: Science. 1 cr.**

A practical experience in elementary, middle, or secondary schools in which students observe teachers, assist with small group instruction, and teach a micro lesson in science. Must be taken concurrently with EDU 327 or with consent of the Director of Teacher Education.

### **EDU 392 Clinical: Mathematics 1 cr.**

A practical experience in middle childhood and/or early adolescent mathematics in which the students observe teachers, assist with small group instruction, teach two complete lessons, and collect data for an action research project. Must be taken concurrently with EDU 328 or with consent of the Director of Teacher Education.

### **EDU 393 Clinical: (Major) Secondary. 1 cr.**

A practical experience in a secondary school in which students observe teachers, assist with small group instruction, and teach micro lessons in their major. Must be taken concurrently with EDU 342 or with consent of the Director of Teacher Education.

### **EDU 394 Clinical: Middle. 1 cr.**

A practical experience in a middle school in which students observe teachers, assist with small group instruction, and teach micro lessons in their major or minor. Must be taken concurrently with EDU 323.

### **EDU 395 Clinical: (Minor) Middle/Secondary. 1 cr.**

A practical experience in a middle or secondary school in which

students observe teachers, assist with small group instruction, and teach micro lessons in their minor. Must be taken concurrently with EDU 341 or with consent of the Director of Teacher Education.

### **EDU 396 Clinical: Literacy: Middle Childhood. 1 cr.**

A practical experience in a literacy tutoring program and in the elementary classroom emphasizing developmental reading: observation of teachers, assistance with deficient and gifted readers, and instruction of skill and literature-based lessons. Must be taken concurrently with EDU 333 or with consent of the Director of Teacher Education.

### **EDU 397 Clinical: Literacy: Early Adolescence/Adolescence 1 cr.**

A practical experience in a literacy tutoring program and in the middle/secondary classroom emphasizing content area reading: observation of teachers, assistance with deficient and gifted readers, and instruction of lessons which emphasize reading skills. Must be taken concurrently with EDU 331 or with consent of the director.

### **EDU 492 Clinical: Multiculturalism. 1 cr.**

Field experience in PK-12 schools which addresses awareness of diversity and multiculturalism. This clinical is taken only when these hours have not been met through other clinical experiences as described in Appendix C of the Teacher Education Handbook. If needed, taken concurrently with EDU 451 or with consent of the Director of Teacher Education.

### **EDU 493 Portfolio Seminar. 1 cr.**

An integrative academic experience required of all EDU majors in their final academic semester prior to student teaching. This course is considered a capstone course where students demonstrate through an electronic portfolio and formal presentation that they have the knowledge, skills, and dispositions necessary for the formal student teaching or internship experience. Prereq: Admission to the School of Education and completion or concurrent enrollment in the final course of the program.

### **EDU 494 Teacher Candidate Internship. 10 cr.**

A supervised internship in which students engage in planned instruction and other duties as a designated part of a teaching experience on the early childhood, elementary, middle or high school levels. Placement is limited to schools in the Metro Milwaukee area. Students must have transportation. Teacher Candidacy with the seminar is considered a full load; no other classes should be added. Because of state requirements, students follow the calendar of the school district, not the college. Prereq: All other education courses, completion of clinical experiences, portfolio presentation, and formal department approval.

### **EDU 495 Teacher Candidacy. 10 cr.**

A supervised practicum in which students engage in planned instruction and other duties as a designated part of a teaching experience on the early childhood, elementary, middle or high school levels. Placement is limited to schools in the Metro Milwaukee area. Students must have transportation. Teacher Candidacy with the seminar is considered a full load; no other classes should be added. Because of state requirements, students follow the calendar of the school district, not the college. Prereq: All other education courses, completion of clinical experiences, portfolio presentation, and formal department approval.

**EDU 496 Seminar for Teacher Candidates. 2 cr.**

A seminar held weekly during the Teacher Candidacy experience with members of the education faculty and other teacher candidates to discuss and explore challenges, experiences, and difficulties encountered during the teaching experience. Must be taken concurrently with EDU 494/495.

**EDU 497 Professional Development Experience. 2 cr.**

This combined theoretical-practice course is intended for those pursuing post-baccalaureate teacher certification as an initial license or as an add-on license. Participants overview professional literature, set professional teaching goals, design objectives that operationalize the goals. In-depth research on "Best Practices" provides the knowledge base for the teacher to implement strategies in the classroom. Application of assessment efforts determine whether growth in student learning has occurred as a result of these strategies. (Pre-requisite: Admission to the post-bac certification program and permission of the Director of Certification.)

## ENGLISH (ENG)

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The English curriculum encompasses three major areas: writing, literature, and English education. Studies in these areas help students develop their powers of expression and explore the behavior, ideas, and values of others. The English major or minor enhances critical and analytical skills in thinking, reading, and writing - skills crucial to numerous disciplines and professions.

The literature component of the English curriculum is dedicated to the study of the great works of American, British, and world literature. The department addresses recent trends in literary theory, while providing a strong foundation in the literary tradition of the West.

In all aspects of the English program at Wisconsin Lutheran College, professors strive to approach their subjects through the frame of Scripture. Students are challenged to develop a thoughtful and thoroughly Christian approach to art and life.

### Course of Study

Students who desire to pursue an English major may select one of two tracks: Literary Studies or Writing. They may also pursue both tracks.

- A. A major in English (Literary Studies) requires at least 36 credits beyond ENG 101, including
  1. American Literature: ENG 210 and 211.
  2. British Literature: ENG 220 and 221.
  3. Undergraduate Research: ENG 498.
  4. Electives: At least 21 credits at or beyond the 300 level.
- B. A major in English (Writing) requires at least 36 credits beyond ENG 101, including
  1. Writing Emphases: ENG 303, 304, 305, 306, 330, 335.
  2. Philosophy: PHI 102 or 202.

3. Communication: COM 302
4. Undergraduate Research: ENG 498.
5. Electives: At least 9 credits at or beyond the 300 level

The English Dept. regularly offers travel course opportunities after the Spring semester. English majors are encouraged to take one travel course prior to completion of their studies. Such opportunities allow a richer cultural understanding of literature than can typically be gained in the classroom alone.

Teacher Certification: Students seeking teacher certification must also complete ENG 330 and ENG 461.

Grade Point Average: To have a major in English approved for graduation, a student must have a minimum cumulative GPA of 2.50 in courses selected by the student to satisfy the major.

- C. A minor in English (Literary Studies) requires at least 21 credits beyond ENG 101 (24 credits for English education majors), including
  1. American Literature: ENG 210 or ENG 211
  2. British Literature: ENG 220 or ENG 221
  3. Electives: At least 15 credits.
- D. A minor in English (Writing) requires at least 21 credits beyond ENG 101 (24 credits for English education majors), including
  1. Writing Emphasis: ENG 303, 304, 305, 306, 330
  2. Philosophy: PHI 102 1
  3. Communication: COM 302

General Requirements: All WLC students must satisfy the general degree requirements in English by completing ENG 101 with a grade of C or better and one 3-credit literature course.

### Course Description

**ENG 100 Transition to College Writing. 3 cr.**

A reinforcing of students' basic writing skills, which includes a review of writing conventions, sentence and paragraph development, and supporting a thesis. May not be taken concurrently with ENG 101. Prereq: placement.

**ENG 101 Expository Writing. 3 cr.**

Workshop with emphasis on writing as a process. Students work on essay structure, idea organization and development, and grammatical correctness. Research and documentation skills also introduced. A minimum grade of C is required to fulfill general degree requirement. B/C or C places student in Writing Assistance Program.

**ENG 210 American Literature 1. 3 cr.**

A survey of major American writers and literary movements from the Puritan era through the Transcendentalists. Prereq: admission to the English major or minor or consent of the Chair of Modern Languages.

**ENG 211 American Literature 2. 3 cr.**

Second part of American literature survey examining major writers and literary movements from Whitman to the present. Prereq: admission to the English major or minor or consent of the Chair of Modern Languages.

**ENG 220 British Literature 1. 3 cr.**

A survey of major British authors and literary movements from Beowulf through the late eighteenth century. Prereq: admission to the English major or minor or consent of the Chair of Modern Languages.

**ENG 221 British Literature 2. 3 cr.**

Second part of British literature survey examining major writers and literary movements from the Romantics to the present. Prereq: admission to the English major or minor or consent of the Chair of Modern Languages.

**ENG 293 Genre Studies: Drama. 3 cr.**

Students study the social and cultural aspects of dramatic literature from the classical era to the present. Includes Greek, Medieval, Elizabethan, French Renaissance, Romantic, and Modern selections. Students may not earn credit for both ENG 293 and ENG 393.

**ENG 294 Genre Studies: Poetry. 3 cr.**

Students study a variety of poetic forms and styles from medieval to modern. Course includes close examinations of prosody; students may compose several poems. Students may not earn credit for both ENG 294 and ENG 394.

**ENG 295 Genre Studies: Fiction. 3 cr.**

Students read representative prose fiction, including both short stories and novels, of American, English, continental, or minority writers. The student's awareness of the distinction of this genre is increased through a study of various fictional modes, forms, conventions, and styles. Students may not earn credit for both ENG 295 and ENG 395.

**ENG 303 Professional Writing. 3 cr.**

This workshop course introduces students to components of effective writing for business interactions, academic advancement, and professional prose more broadly. Students hone written and oral communication skills and demonstrate their ability to use technology to present ideas.

**ENG 304 Advanced Writing. 3 cr.**

This workshop course enables upper-level students to sharpen their approach to research and academic writing. Students critique their own writing and the writing of others with an eye toward thoughtful commentary and revision.

**ENG 305 Creative Writing. 3 cr.**

This workshop course allows students to craft original works of short fiction, poetry, and other literary genres. Composing and critiquing of student work required.

**ENG 306 Technical and Scientific Writing. 3 cr.**

Introduction to the theoretical foundation of technical and scientific writing, as well the research, writing, technological skills necessary for the preparation of technical and scientific documents and presentations.

**ENG 307 Non-western Perspectives. 3 cr.**

Students read selections that highlight contemporary non-western ethnic and minority perspectives. While the course may focus on a particular ethnic, racial, or cultural tradition, the readings (from fiction, poetry, or drama) expose students to a rich and diverse array

of customs and cultural traditions.

**ENG 310 Early American Literature. 3 cr.**

Writings of exploration and colonization tracing literature from pre-Revolutionary times to the pre-Civil war period. Writers include Bradford, Edwards, Franklin, Taylor, Cooper, and Poe.

**ENG 311 American Renaissance. 3 cr.**

A study of the major figures responsible for the flowering of American literature in New England in the middle 1800s. Authors include Emerson, Thoreau, Hawthorne, Melville, Whitman, and Dickinson.

**ENG 312 American Realism and Naturalism. 3 cr.**

A study of major American authors of the late 1800s through the early 1900s. Authors include Twain, Howells, James, Harte, Chopin, Wharton, Crane, Dreiser, Sinclair, London, Norris, and others.

**ENG 313 Twentieth-Century American Literature. 3 cr.**

A study of form, theme and context in American literature from World War I to the present with primary emphasis given to the novel. Authors may include Hemingway, Faulkner, Fitzgerald, Steinbeck, McCullers, Updike, Oates, Hurston, and Pynchon. Poets may include Frost, Robinson, Stevens, Cummings, and Plath..

**ENG 320 Medieval and Renaissance Literature. 3 cr.**

A study of medieval lyrics, narratives, and romances with emphasis on the works of Chaucer. In addition, readings of significant works by early Renaissance authors.

**ENG 321 Shakespeare 1. 3 cr.**

A study of several representative plays, including histories, comedies, and tragedies. Students will analyze Shakespeare's use of language in individual plays and test several interpretive strategies.

**ENG 322 Shakespeare 2. 3 cr.**

An examination of a particular critical theme or issue both within the context of both Shakespeare's plays, as well as the broader context of early modern British culture.

**ENG 323 Major British Authors, Seventeenth Century. 3 cr.**

A study of several of the major literary figures in seventeenth-century England in their cultural and historical contexts. Authors may include Donne, Herbert, Milton, Dryden, Bacon, and Addison..

**ENG 324 Restoration and Eighteenth-century Literature. 3 cr.**

This course addresses British literature of the "long eighteenth century," that is, from the Restoration of the Monarchy up to the pre-Romantic eighteenth century. Authors may include Pope, Boswell, Fielding, Gray, Goldsmith, Johnson, Sterne, Smollett, and Swift.

**ENG 325 English Romanticism. 3 cr.**

A study of the British romantic movement from 1783-1832. Authors include Austen, Scott, Blake, Wordsworth, Coleridge, Keats, Shelly, and Byron.

**ENG 326 Victorian Literature. 3 cr.**

A study of the major Victorian novelists, essayists, and poets read in light of the social and cultural shifts of the Victorian period. Authors may include Dickens, the Brontës, Hardy, Trollope, Eliot, Thackeray, Gaskell, Kipling, Wilde, Arnold, Carlyle, Mill, Pater, Ruskin,

Tennyson, the Brownings, the Rossettis, and Hopkins.

**ENG 328 Twentieth-Century British Literature. 3 cr.**

A study of major British poets, novelists, and essayists against the background of the major social and cultural changes of the twentieth century. Authors may include Conrad, Woolf, Joyce, Eliot, Orwell, Lawrence, Yeats, and Lessing.

**ENG 330 Introduction to Language and Linguistics. 3 cr.**

The historical development, grammar, linguistic characteristics, and semantic principles of the English language; language acquisition; and psycholinguistics.

**ENG 335 Literary Criticism. 3 cr.**

A study of literary theory from the ancient world to contemporary approaches.

**ENG 393 Advanced Genre Studies: Drama. 3 cr.**

Students read and analyze the social and cultural aspects of dramatic literature from the classical era to the present. Includes Greek, Medieval, Elizabethan, French Renaissance, Romantic, and Modern selections. This course requires additional reading, writing, and research beyond what is required for ENG 293. Students may not earn credit for both ENG 393 and ENG 293.

**ENG 394 Advanced Genre Studies: Poetry. 3 cr.**

Students read and analyze a variety of poetic forms and styles from medieval to modern. Course includes close examinations of prosody; students may compose several poems. This course requires additional reading, writing, and research beyond what is required for ENG 294. Students may not earn credit for both ENG 394 and ENG 294.

**ENG 395 Advanced Genre Studies: Fiction. 3 cr.**

Students read and analyze representative prose fiction, including both short stories and novels, of American, English, continental, or minority writers. The student's awareness of the distinction of this genre is increased through a study of various fictional modes, forms, conventions, and styles. This course requires additional reading, writing, and research beyond what is required for ENG 295. Students may not earn credit for both ENG 395 and ENG 295.

**ENG 400 Contemporary Trends in Literature. 3 cr.**

An analysis of artistic directions in current times. Course includes readings of contemporary criticism and theories, discussions, presentations, written responses, and various gallery experiences.

**ENG 490 Internship. 1-3 cr.**

By arrangement with department.

**ENG x91 Special Topics. 1-3 cr.**

In-depth exploration of ideas and issues in the field of literary studies. Topics may include exploration in the works of a single author, analysis of a particular literary movement or time period, or new theoretical approaches to literary issues. Course may be repeated under different topics.

**ENG 498 Undergraduate Research. 3 cr.**

Senior thesis development and composition. Supervised research or creative project designed as capstone for English majors. Public presentation of work at end of the term.

**ENG 199-499 Independent Study. 1-3 cr.**

By arrangement with department.

## GEOGRAPHY (GEO)

**GEO 125 Survey of Physical Geography. 3 cr.**

A study of the physical elements in geography and their relation to people. Emphasis is on the structure of the earth, its climate, weather, soils, natural vegetation, land forms, and on processes of erosion and deposition.

## GERMAN (GER)

German is a good foundation for a number of professional careers. The study of German, its history, and culture give the student an edge in such diverse fields as international law, mathematics, philosophy, psychology, technology, chemistry, physics, biology, engineering, music, and the arts. Business majors who also major or minor in German have a leading edge in today's global market. In addition, having a reading knowledge of German satisfies the language requirements of many graduate school programs.

All classes are conducted in German.

A major in German and German Education consists of a minimum of 36 credits of required courses:

1. Intermediate German: GER 201 (EDU only) GER 202.
2. Composition, Conversation, Culture: GER 311 or 312.
3. Literature: Two of the following: GER 321, 322, 323.
4. Grammar: GER 350.
5. International Business: GER 360.
6. Phonology and Phonetics: GER 375.
7. Selected Topics: At least one GER 402.
8. Senior Research Project: GER 495.
9. Collateral Requirement: One of HIS 211, 321, 334 or 331 when the topics is focused on an aspect of German history.

Foreign Study/Experience: All students majoring in German are required to have an approved foreign study/experience of at least six weeks. Students seeking education certification must have their program approved by the Education Department as well as the German Department.

A minor in German or German Education requires at least 24 credits including:

1. Language skills: GER 201 (EDU only), 202, 360, 375, and at least one of 311 or 312.
2. Literature: At least one of GER 321, 322, 323.
3. Selected Topics: At least one GER 402.
4. Electives: At least 6 additional credits from remaining courses above GER 202.
5. Collateral Requirement: One of HIS 211, 321, 334.

Grade Point Average: To earn a major or minor in German, a student must have a minimum grade of C in each course individually and a minimum cumulative GPA of 2.50 in courses selected by the student to satisfy the major/minor. Students seeking Education certification are required to have a minimum cumulative GPA of 3.00.

Students who have been waived from taking GER 202 due to placement test scores will receive credit for it towards a German major or minor.

## Course Descriptions

### **GER 101 Elementary German 1. 4 cr.**

A communicative introductory course to German stressing the language skills of speaking, reading, writing, and listening. The course also introduces students to the cultures of the German-speaking countries. Once a week students will be scheduled with a language assistant in the language lab.

### **GER 102 Elementary German 2. 4 cr.**

Continuation of Elementary German 1. Prereq: GER 101 (grade of C or better), or by placement.

### **GER 201 Intermediate German 1. 3 cr.**

Oral and written communication skills will continue to be developed and expanded. Readings emphasizing cultural topics will be introduced and discussed. Prereq: GER 102 (grade of C or better), or by placement.

### **GER 202 Intermediate German 2. 3 cr.**

Continuation of Intermediate German 1. Prereq: GER 201 (grade of C or better), or by placement.

### **GER 311 Advanced German Composition, Conversation, and Culture 1. 3 cr.**

Intensive practice in speaking, writing, and reading German. Aspects of German culture and political history will be studied. Prereq: GER 202 (grade of C or better), or by placement.

### **GER 312 Advanced German Composition, Conversation, and Culture 2. 3 cr.**

Intensive practice in speaking, writing, and reading German. The culture and history of Germany and other German speaking countries will be studied. Prereq: GER 202 (grade of C or better), or by placement.

### **GER 321 Introduction to German Literature 1. 3 cr.**

A survey of German literature as illustrated in representative works from the medieval period through the enlightenment. German history and culture as they relate to the works will also be discussed. GER 311 or GER 312.

### **GER 322 Introduction to German Literature 2. 3 cr.**

A survey of German literature as illustrated in representative works from the periods of *Sturm und Drang* to *Junges Deutschland*. German history and culture as they relate to the works will also be discussed. Prereq: GER 311 or GER 312 or by permission of instructor.

### **GER 323 Introduction to German Literature 3. 3 cr.**

A survey of German literature as illustrated in representative works

from poetic realism to the present. German history and culture as they relate to the works will also be discussed. Prereq: GER 311 or GER 312 or by permission of instructor.

### **GER 350 Intensive German Grammar. 3 cr.**

This course offers an intensive review of German grammatical structures, syntax, and idioms through composition. An emphasis is placed on developing facility in diverse types of written expression. Prereq: GER 202 (grade of C or better), or by permission of instructor.

### **GER 360 German for International Business Communication 1. 3 cr.**

Introduction to the vocabulary and practices of German business, the German business culture, and the basic workings of the German economy within the European union. Prereq: GER 202 (grade of C or better), or by permission of the instructor.

### **GER 375 Phonology and Phonetics. 3 cr.**

Introduction to articulatory phonetics and phonemics, with an emphasis on English-German contrasts and pronunciation difficulties; drills in pronunciation. Prereq: One 300 level course or by permission of instructor.

### **GER 490 Internship. 1-3 cr.**

By arrangement with the department and the Internship Coordinator.

### **GER x91 Seminar in Selected Topics. 3 cr.**

Focus on a major topic, figure, movement or era. Presented in a seminar format. May be repeated with a change in subtitle. Prereq: Any two 300 level courses or by permission of instructor.

### **GER 495 Senior Thesis. 3 cr.**

A scholarly project on a theme of interest to the student. Crafted individually with the advisor with an end product in German of a minimum 30-page essay. Prereq: Senior status and by permission of instructor.

### **GER 199-499 Independent Study. 1-3 cr.**

By arrangement with the department.

## GREEK (GRE)

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### **GRE 101 Elementary Greek 1. 3 cr.**

Vocabulary, grammatical forms, and syntax preparatory to initial readings in the Greek New Testament are studied.

### **GRE 102 Elementary Greek 2. 3 cr.**

Continued study of basic Greek syntax together with readings from the general Epistles of John and selections from the Gospel of Mark. Prereq: GRE 101.

### **GRE 201 Intermediate Greek 1. 3 cr.**

The reading of a major portion of the Gospel of John in its original language together with the grammatical and syntactical study of its literature.



**GRE 202 Intermediate Greek 2. 3 cr.**

The reading and exegesis of selected portions of the book of Acts, 1 Corinthians, and Ephesians. Prereq: GRE 201.

NOTE: A classical Greek alternative using Xenophon's Anabasis may be elected.

## HISTORY (HIS)

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A major in history is a good foundation for a number of professional careers. The study of history puts one in touch with all past human achievements. It is desirable for anyone planning to enter such fields as law, business, government, or education to be familiar with how humans in the past have carried on these activities. A major in history also prepares a student for graduate work in this discipline.

### Course of Study

A major will consist of at least 39 credits in history:

1. Core courses: At least two of the following: HIS 101, 102, 201; and at least two of the following HIS 111, 112, 211; and HIS 401
2. American History: At least three of the following: HIS 371, 379, 380, 381, 382, 383, 391, 394
3. European History: At least three of the following: HIS 301, 302, 320, 322, 324, 325, 331, 334, 335, THE 441 or 442
4. World History: At least two of the following: HIS 341, 342, 351, 352, 355, 363

A minor will consist of at least 21 credits in history:

1. Core courses: HIS 101 and 111
2. American History: At least two of the following: HIS 102, 201, 371, 379, 380, 381, 382, 383, 391, 394
3. European History: At least two of the following: HIS 112, 211, 301, 302, 320, 322, 324, 325, 331, 332, 333, 334, 335, THE 441 or 442.
4. World History: At least one of the following: HIS 341, 342, 351, 352, 355, 363

*\*For students admitted to the Honors program, two of the following may be taken in place of HIS 111, 112, or 211: HON 101, 103, 201, 203, 403.*

### Course Descriptions

#### **HIS 101 American History 1, 1492 - 1865. 3 cr.**

A survey of American history from the colonial era to the end of the Civil War. The social, political, cultural, and economic developments of our country are studied.

#### **HIS 102 American History 2, 1866 - 1945. 3 cr.**

A survey of American history from Reconstruction to the end of World War II. The social, political, cultural, and economic developments of our country are studied.

#### **HIS 111 European History 1, to - 1500. 3 cr.**

An introductory study of the origins of European civilization from the beginnings of recorded history through the Renaissance. The course surveys the origins of western civilization in the ancient Near East and then turns to the classical civilizations of Greece and Rome, concluding with an exploration of the medieval period and the Renaissance. Designed for freshmen and sophomores.

#### **HIS 112 European History 2, 1500 - 1850. 3 cr.**

An introductory study of the early modern period in European history, continuing the story of the development of European history from the period of the Reformation through the mid-nineteenth century. The course surveys the impact of the Reformation, European exploration and discovery of the "New World", absolutism, the Enlightenment, the French Revolution and Napoleon, and the period of romanticism and reaction in the early nineteenth century. Designed for freshmen and sophomores.

#### **HIS 201 Modern America, 1945 - Present. 3 cr.**

A course designed to study the most recent period in American history, from the end of World War II to the present. The key events, individuals, and themes of this era will be studied.

#### **HIS 211 Modern Europe, 1850 - present. 3 cr.**

A study of the late-nineteenth century, First World War, the worldwide depression, the rise of the dictators, the Second World War, the Cold War, and European society, economics, and politics toward the end of the twentieth century. Designed for freshmen and sophomores.

#### **HIS 301 Classical Greece. 3 cr.**

A study of the origins of Western Civilization in the Greek, and Hellenistic periods, focusing on the development of the city, culture, thought, and the continuing impact of the Greek experience on modern life.

#### **HIS 302 Rome and its Empire. 3 cr.**

A study of Rome during the periods of the Republic and Empire; the spread of Graeco-Roman Civilization; the rise and influence of the Christian Church; and the continuing legacy of Rome in the modern world.

#### **HIS 320 Medieval History, 500 - 1450. 3 cr.**

A study of medieval history from the fall of Rome, the rise of the church and states, medieval society and education, and the continuing influence of this period on modern times.

#### **HIS 322 The French Revolution and Napoleon, 1789-1815. 3cr.**

The French Revolution represents one of the greatest transformative periods in modern history. This course studies the origins of the revolution in European thought, society, and politics, and then traces its moderate beginnings, its turn toward radicalism in the Reign of Terror, and its international impacts. We then turn to a detailed study of Napoleon Bonaparte as a military dictator, consolidator of the revolution, and conqueror. Finally, the course concludes with Napoleon's defeat and the effort to put the pieces of Europe back together after over twenty years of revolution, upheaval, and war.

#### **HIS 324 World War I, 1900 - 1925. 3 cr.**

This course will cover the first quarter of the Twentieth Century in Europe. Focus will be on Europe prior to the war, the causes of

conflict, the war itself and its impact on the future of Europe and the world.

**HIS 325 World War II. 3 cr.**

A program of study on the era of the Second World War. Emphasis will be on the political, economic, religious, social, and military trends that started, furthered, and ended the war. It will also show how the war altered the course of the world history and set the Soviet Union and the United States on a collision course that ended in the Cold War.

**HIS 331 Selected Topics in European History. 3 cr.**

Courses may include various national histories including Modern Germany from 1815 to the present; Modern Russia from 1700 to the present; and special issues in European history.

**HIS 333 England: Renaissance, Reformation, and the Tudors. 1485-1603. 3cr.**

This course will explore the history of England during the turbulent reign of the House of Tudor. Beginning with the struggle for the throne known as the Wars of the Roses and the triumph of Henry Tudor, the course examines the society, economy, and politics of the period along with its many interesting and colorful personalities including Henry VIII and his six unfortunate wives, the boy-king Edward VI, Bloody Queen Mary, and the “Virgin Queen” Elizabeth I. The course also studies the culture of Renaissance England, including the influence and life of William Shakespeare.

**HIS 334 Germany: Rise, Fall, and Reunification, 1850-Present. 3 cr.**

In 1850, there was no country called Germany. This course will begin with the building of the German Empire under Otto von Bismarck, and trace that empire’s destruction under Kaiser Wilhelm II. Much of the course will focus on the tragic consequences of Germany’s resurgence after World War I under the influence of Adolph Hitler’s Nazi regime. The course concludes with an overview of Germany conquered and broken into East and West during the Cold War and until its final reunification in 1990.

**HIS 335 England: Wars, Revolution and Reform, 1603-1815. 3 cr.**

This course studies a period of great upheaval and transformation in English history. The Stuart dynasty, English Civil Wars and Great Britain’s involvement in the French Revolution and Napoleonic Wars will be covered along with the social, political and economic changes of the period.

**HIS 341 History of Latin America. 3 cr.**

A study of the social, economic, and political development of Latin America from the conquistadors to the present.

**HIS 342 Colonial Latin America. 3 cr.**

This course studies the development of Latin America from European discovery through the independence movements of the early nineteenth century, with special attention paid to Mexico, the Andes, the Caribbean and Brazil.

**HIS 351 History of Africa. 3 cr.**

Studying the history of Africa from pre-European contact to development of present African nations.

**HIS 352 Islam and the Middle East. 3 cr.**

A study of the origins, teachings and spread of Islam. Special focus will be given to the various Islamic sects in the modern Middle East and their tensions with the West.

**HIS 355 Selected Topics in World History: 3 cr.**

Courses may include various national histories from across the globe from the 1700s to the present and special issues in world history.

**HIS 363 Sleeping Dragon: History of China. 3cr.**

After acquainting students with Chinese geography and culture, the history of China from the early imperial period to the end of the twentieth century will be surveyed. Special attention will be placed on Chinese religions and culture, the introduction of Christianity, China’s relationship to the West, and the Communist period. Students will read and analyze various primary source material in translation, as well as viewing films from and about China.

**HIS 371 Native American History. 3 cr.**

A study of Native American cultures and histories and the impact of European/American civilizations upon them. Course covers pre-Columbian history to the present day.

**HIS 379 Witchcraft and Culture in the Atlantic World. 3 cr.**

In the years from roughly 1500-1800, thousands of women and men in Europe and the Americas were put on trial and executed for the crime of witchcraft. The people of this period sincerely believed in the physical presence of the Devil, whose rampant minions lurked behind the masks of friends, neighbors, and family members. This course examines the history of popular culture, witchcraft beliefs, and occult practices in the early modern Atlantic World. Lectures will provide students with necessary background information for each section. The first section covers the popular culture of Western Europe, followed by a detailed examination of witchcraft and occult beliefs, criminal justice, and the great European witch hunts. Next, the course moves out into the Atlantic, exploring how European culture, religion, witchcraft, and occult beliefs converged with those of Indian and African peoples in the Americas. Finally, the course moves to British America, where the infamous Salem Witchcraft Trials provide a detailed case study using the original court records.

**HIS 380 Colonial America, 1480-1763. 3cr.**

This course explores the rise and development of Britain’s American empire, including the thirteen North American colonies, Canada, and the West Indies. We begin with early efforts at exploration and colonization, including Massachusetts Bay and Jamestown in Virginia and conclude with Britain’s triumph in the “Great War for Empire” or French and Indian War in 1763, setting the stage for the years of imperial crisis, revolution, and independence that followed.

**HIS 381 American Revolution and Early Republic, 1763-1815. 3cr.**

John Adams once wrote, “Posterity! You will never know how much it cost the present Generation to preserve your Freedom!” Americans indeed witnessed great struggles and challenges in this era and fought, often with each other, to define liberty, patriotism, equality, the rule of law, and ultimately what it meant to be a nation. This course will cover the crucial founding period of United States history, including detailed explorations and discussions of the fracturing of the British Empire, the long war for independence, the framing and ratifying

of the constitution, the expansion of slavery, and the new republic tested by the dangers of a world at war in the early nineteenth century. The contributions of major figures including Adams, Jefferson, Washington, Hamilton, and Madison will also be discussed in depth.

**HIS 382 Jacksonian America, 1816 - 1848. 3 cr.**

This course continues a study of the United States following the formation period. This course looks at the development of the United States from an era of the common man to the end of the Mexican-American War.

**HIS 383 American Civil War, 1848 - 1877. 3 cr.**

This course surveys the causes for the Civil War, the military, political, social, and economic events of the Civil War and Reconstruction.

**HIS 391 Selected Topics in American History: 3 cr.**

Courses may include American military history, African-American history, women's history, and other topics in American history.

**HIS 394 America, Vietnam, and the Sixties, 1960-1974. 3cr.**

The years between 1960 and 1974, often called the "long 1960s", represent a period of rapid and often difficult change in American history. This course explores these transformations, including America's long defeat in the Vietnam War, political radicalism and violence, the victories and defeats of the Civil Rights movement, the expansion of government under Lyndon Johnson, and the rise and fall of Richard Nixon. The cultural transformations of the period, including movies, television, music, and sports, will also be explored in detail.

**HIS 401 History Thesis. 3 cr.**

This course is intended to be a capstone course for students majoring in history. Students will be required to produce a substantial thesis based on independent research in primary and secondary sources. At the discretion of the instructor, the course may focus on a specific historical topic or include discussions on the nature of history, methodology, and the discussion of various historiographical traditions.

**HIS 490 Internship. 1-3 cr.**

By arrangement with department and internship coordinator.

**HIS x91 Special Topics. 1-3 cr.**

Selected topics in History.

**HIS 199-499 Independent Study. 1-3 cr.**

By arrangement with department.

## HONORS PROGRAM (HON)

The college's honors program is a rigorous alternative general education program that can be combined with any major or program of study on campus. The structure of the program includes a variety of interdisciplinary courses that emphasize literacy by integrating a study of the Christian tradition with both "great books" and iPad technology. Students are also encouraged to engage a foreign culture and language with the possibility of studying abroad for a semester. The program allows students to foster close relationships with fellow honors students and faculty and also take part in research and service

opportunities from the moment they step on campus. Students will also have the opportunity to meet important academic and cultural figures who visit our campus and receive an additional merit scholarship as part of their financial aid award.

**HON 101 The Ancient World. 4 cr.**

A study of the origins of late Western European culture through the institutions, art, religion, and thought of ancient Israel, Greece, and Rome. Prereq: instructor consent.

**HON 103 The Middle Ages. 4 cr.**

A study of the development of political, social and intellectual life in medieval Europe as it grows by assimilating and contrasting itself with ancient culture. Prereq: instructor consent.

**HON 201 Renaissance and Reformation. 4 cr.**

An exploration of re-ordering of the medieval world and the Christian church, as well as the establishing of a new modern world, through works of art, political philosophy, literature, and theology. Prereq: instructor consent.

**HON 203 Reason and Revolution. 4 cr.**

Analysis of the development and significance of modern concepts of freedom, liberty, nature, society, and social institutions. Prerequisite: instructor consent.

**HON 301 Foreign Study. 12 cr.**

A semester spent studying abroad in an accredited program. Requires approval of honors program director. Alternatively, may be satisfied with four foreign language courses above the 200 level. Prereq: instructor consent.

**HON 401 Capstone Project. 4 cr.**

Senior thesis development. Supervised research or creative project designed to demonstrate the intersection of students' education in the honors program and their majors. Public presentation of work at end of the term. Prereq: instructor consent.

**HON 403 The Contemporary World. 4 cr.**

An analysis of cultural directions in current times. Course includes readings of contemporary criticism and theories, discussions, presentations, written responses, and various gallery experiences. Prereq: instructor consent.

**HON 491 Special Topics. 3 cr.**

In-depth exploration of texts, ideas, and issues in a particular academic discipline. Topics may include exploration in the works of a single author, analysis of a particular movement or time period, or new theoretical approaches to an intellectual issue. Course will be repeated at least twice under different titles and topics. Prereq: instructor consent.

## HUMAN SOCIAL SERVICES (HSS)

The bachelor's degree in human social services (HSS) at Wisconsin Lutheran College combines the strengths and perspectives of communication, psychology, and religious studies. This interdisciplinary major provides students with a broad exposure within the liberal arts. Students pursuing a degree in HSS will learn

to enhance the physical, emotional, social, and spiritual quality of the life for those in need. The HSS major offers content and experiences designed to develop innovative practitioners able to integrate knowledge, theory, practice, research skills, servant leadership and cultural sensitivity within community organizations. Though the HSS major is not equivalent to a bachelors of social work, the student graduating with a HSS major will be prepared to improve accessibility, accountability, and coordination among the multiple professionals and service agencies designed to provide support, education, resources, and/or assistance to diverse populations.

### Course of Study

A major in Human Social Services consists of at least 64 credits.

1. Core courses: HSS 100, 200, 300, 400, 493, 494, COM 211, 311, PSY 101, 210, PHI 201, THE 211.
2. Communication: At least nine credits from the following: COM 260, 305, 307, 309, 340, 360, 380.
3. Psychology: At least nine credits from the following: PSY 120, 130, 230, 250, 260, 300, 310, 321, 324, x91
4. Religious Studies: At least nine credits from the following: PHI 101, 102, 202, 203, THE 100/105/110, 120, 130, 421, 431.
5. Collateral Requirements: SOC 101 and MAT 117.
6. Four documented semesters of volunteer experience in the field of human services working with diverse populations is recommended and will be strongly encouraged.

### Course Descriptions

#### HSS 100 Introduction to Human Social Services. 3 cr.

This course provides a Christ-centered study of the history, concepts, theories, principles, and present day practices of the profession and field of human social services. This course pays special attention to the various client populations and career options as well as the characteristics of effective human social service workers.

#### HSS 200 Serving Diverse Populations. 3 cr.

This course introduces the knowledge, skills, attitudes and behaviors designed to reflect Christ centered, culturally competent practices within the field of human social services. Prereq: HSS 100.

#### HSS 300 Human Social Services. 3 cr.

This course provides an overview of the history, theoretical perspectives and concepts related to the network of programs providing service to millions of Americans struggling with illness, disability, and economic dependence. Throughout the course, students will be introduced to careers in human services, theories of counseling, social welfare policy, and current controversies and issues within the field. Students are required to interview and evaluate mission and policies of local public and private agencies. Prereq: HSS 100 and successful completion of PSY 210.

#### HSS 400 Advanced Human Social Services. 3 cr.

This advanced course in human services professionalizes the many skills introduced throughout the program. Specifically the course addresses professional writing, the use of behavioral observations and documentation, counseling skills as well as case management

and treatment planning. In addition, the course addresses legal and ethical issues encountered throughout the field of human services. Prereq: HSS 300 and junior standing.

#### HSS 493 Practicum in Human Social Services 1. 3 cr.

This represents a required 3 credit, 135 hour placement at single social services agency. Given most agencies require training specific to program, this practicum incorporates on the job training for students enhancing the skills introduced throughout the program. In addition, the course includes a 1 hour per week group seminar designed to discuss application of program goals in the context of students' learning experiences. Students will become familiar with the operations of a human services agency, including client/staff interaction and employee responsibilities. All sites must provide students with professional supervision. Attendance at the weekly seminar remains a mandatory requirement for all practicum credits and serves to separate this course from other internships offered through Wisconsin Lutheran College. Prereq: HSS 400 and junior standing.

#### HSS 494 Practicum in Human Social Services 2. 3 cr.

This represents a required 3 credit, 135 hour placement at single social services agency. Given most agencies require training specific to program, this practicum incorporates on the job training for students enhancing the skills introduced throughout the program. In addition, the course includes a 1 hour per week group seminar designed to discuss application of program goals in the context of students' learning experiences. Students will become familiar with the operations of a human services agency, including client/staff interaction and employee responsibilities. All sites must provide students with professional supervision. Attendance at the weekly seminar remains a mandatory requirement for all practicum credits and serves to separate this course from other internships offered through Wisconsin Lutheran College. Prereq: HSS 493 and junior standing.

#### HSS x91 Special Topics. 1-3 cr.

Selected topics in Human Social Services.

#### HSS 199-499 Independent Study. 1-3 cr.

By arrangement with department.

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## INTERDISCIPLINARY MAJORS

Through the cooperation of several departments, interdisciplinary majors are offered for students whose interests transcend the practical boundaries of academic departments. Students whose abilities and interests are not met through existing disciplinary or interdisciplinary majors may create a self-designed interdisciplinary major around a coherent theme or problem and which combines course work from various academic departments.

### BROAD FIELD SOCIAL SCIENCES (BSS)

The social sciences deal in systematic, rational, and empirical ways with human nature, thoughts and feelings, behavior, relationships, and the factors that affect and influence people. As an interdisciplinary major, a broad approach to studying the social sciences affords

the student with the opportunity to examine various interrelated perspectives on the human experience. At Wisconsin Lutheran College, broad field study in the social sciences can include study in the following disciplines: anthropology, economics, geography, history, psychology, and sociology.

### Course of Study

- A. A major in broad field social sciences consists of at least 56 credits and must include a 36-credit core major in either history or psychology along with at least 20 additional credits in two other social science disciplines.
- B. A teaching major in broad field social sciences enables the student to teach a variety of social science disciplines at the middle and secondary levels. The teaching major consists of a 36-credit major in history or psychology along with at least 20 credits in at least two other social science disciplines.
- C. A teaching minor in social studies is available for students seeking teacher certification at the elementary/middle school level (grades 1-9). The teaching minor enables students to teach in a variety of social science areas at the middle school level. It consists of a total of 24 credits taken in history, geography, economics, anthropology, sociology, political science and psychology.

Effective in July, 1994, persons with a broad field social science may be issued a license in any social science subject area in which they have completed at least 12 credits. Students interested in pursuing a broad field social science teaching major or minor should consult the director of teacher education.

### INTERDISCIPLINARY (SELF-DESIGNED MAJOR (INT)

Students wishing to explore courses of study not offered by individual departments or by existing interdisciplinary majors may petition for a self-designed, interdisciplinary major. Under the guidance of a faculty committee specially appointed by a college dean, such students may develop majors combining courses from several departments or areas. Each interdisciplinary major must have a coherent thematic principle governing the selection and sequencing of courses in the major, must include a culminating project or thesis which demonstrates the outcomes of the major, and must be approved in all particulars by the specially appointed committee. Students who would like to explore an interdisciplinary major are urged to consult with the college dean and the registrar. Interdisciplinary majors must be approved prior to the start of the student's junior year.

### Course of Study

A self-designed interdisciplinary major consists of at least 58 credits as follows:

1. At least 24 credits in a single discipline
2. Six credits in INT 498 Senior Project
3. At least 28 credits in at least two other disciplines

### Course Descriptions

**INT 490 Internship. 1-3 cr.**  
By arrangement with advisor

### INT 495 Practicum. 1-3 cr.

A pre-professional clinical field experience in which students practice professional skills in a supervised setting.

### INT 498 Senior Project. 1-6 cr.

A capstone experience in which the student synthesizes the knowledge gained from study in the disciplines which comprise the interdisciplinary major and which substantively addresses the unifying theme or problem around which the major was constructed. Prereq: junior standing.

### INT x91 Interdisciplinary Special Topics. 1-3 cr.

Special topics that are interdisciplinary. Prereq: based upon course.

### INT 199-499 Independent Study. 1-3 cr.

By arrangement with advisor.

## MARINE BIOLOGY (MBI)

Studies in marine biology will serve as a basis for work or further study in many areas of marine science. The marine biology major provides students with the biological and ecological tools to develop a basic understanding of marine ecosystems. Classroom, laboratory and field experiences work together to allow students to apply learned techniques and concepts in real world situations both locally and in marine environments. These studies are taught from a Christian and Lutheran perspective in order to understand that our Lord is responsible for initiating and sustaining these systems.

A student majoring in Marine Biology may not also major or minor in Biology.

### Course of Study

A. A major in Marine Biology consists of a minimum of 45 credits comprised of 30 core credits and 15 elective credits.

1. Core Courses: BIO 201, 202, 283, 310, 331, 360, 380, MBI 280

2. At least 15 credits from the following elective courses: BIO 321, 322, 324, 341, 465, 481, 498.

### B. Collateral Requirements

1. Core collateral requirements: CHE 161, 162, 221, MAT 221, PHY 201 or 202

2. At least 12 credits from the following collaterals: ANT 181, 201, 202, 203, 301, 320, CHE 210, 222, 228, 310, 350, ESS 182, 300, MAT 222, 223, PHI 201, PHY 201, 202, 301, 302, 303, 304.

C. An approved field experience in marine biology is required and may be satisfied by one of the following: One semester in residence at an approved marine field station or one approved internship.

\*Currently approved field stations are the Discovery Bay, Jamaica; Motte Marine Laboratory, Florida, Orpheus Island Research Station,

James Cook University, Australia and St. George's University, Grenada.

D. A minor in Marine Biology consists of at least 23 credits in biology and marine biology and includes:

1. Core Courses: BIO 201, 202, 283 and MBI 280
2. At least 8 credits from the following biology courses:  
BIO 310, 321, 322, 324, 331, 341, 360, 380, 465, 481, 492.

## Course Descriptions

### **MBI 280 Introduction to Marine Science. 4 cr.**

Students will explore basic biological and physical principles and processes that support marine ecosystems. The ecology and diversity of coral reefs, turtle grass beds, mangrove swamps as well as offshore communities will be incorporated into active learning modules in both the classroom and lab. The dynamic interaction between man and these fragile systems will be assessed around the world using web based tools 3 lec, 3 hrs. lab.

### **MBI 283 Marine Biology. 3 cr.**

An introduction to marine ecology for science and non-science majors in a unique field and laboratory environment on the island of Jamaica. Field trips will include coral reef, estuary, and tide pool communities. Offered during vacation breaks. (Additional fees and instructor approval are required for this course.) - This course would be cross-listed with currently offered course BIO 283

### **MBI 490 Marine Biology Internship. 1-3 cr.**

By arrangement with department and internship coordinator.

### **MBI x91 Special Topics. 1-4 cr.**

This course is a seminar in current marine biological topics. It may be repeated for different topics. This course may require laboratory participation. Prereq: Instructor approval.

### **MBI 199-499 Independent Study. 1-3 cr.**

By arrangement with department.

### **MBI 498 Independent Research. 1-3 cr.**

By arrangement with the department.

## MATHEMATICS (MAT)

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“In most sciences one generation tears down what another has built and what one has established another undoes. In mathematics alone each generation adds a new story to the old structure.”

-Hermann Hankle, 1839-1873

Mathematics is the logical development and application of abstract forms and systems arising from natural phenomena, human activities, and ideas within mathematics itself. It is composed of the major fields of geometry/topology, algebra, and analysis which are divided into more than sixty fields of specialization.

As an academic discipline, mathematics shapes and sharpens the

rational capabilities of the mind. It is a mode of thinking which empowers the individual to absorb new ideas, adapt to rapid change, cope with ambiguity, recognize patterns, solve unconventional problems, analyze complexity, work with abstract concepts and relationships, detect bias, assess risks, and suggest alternatives. Increasingly these are the capacities of mind that are needed for responsible citizenship and successful careers.

As an application tool, mathematics uncovers the structures and relationships that help us understand the nature and problems of the world around us. Mathematics expresses its concepts in symbols and graphic representations within a framework of logical inference which serves as the universal language for communicating technical knowledge.

### **Resources and Instruction**

**Major in Mathematics:** A major in mathematics is one of the finest courses of study for developing ability in analytical thinking. Combined with an appropriate concentration of application courses, a major in mathematics prepares the student for a wide range of career and educational opportunities.

Mathematics majors typically find employment as financial and marketing analysts, technical support consultants in research and development, business problem-solvers using operations research techniques, statisticians, actuaries...the list is endless. Companies in the computer, communications, and aerospace industries, employ many mathematics majors, as do oil companies, banks, insurance companies, consulting firms, manufacturing companies, utilities, research agencies, and almost every bureau and branch of the federal government.

Students may also pursue graduate study in pure or applied mathematics, operations research, statistics, business, computing, and economics as well as many areas in the natural, life, and social sciences.

Mathematics can also be the basis of a teaching career at the secondary or college level.

**Minor in Mathematics:** A minor in mathematics is a valuable complement to most majors. This is especially true for majors in the natural sciences, and in the life and social sciences the necessity of mathematical sophistication is growing. A minor in mathematics significantly improves a student's employment potential.

**Mathematical Modeling Lab:** The Mathematical Modeling Lab provides networked Intel-based computers running MS Windows. In addition to the standard MS Office productivity software and the Maple mathematical package found on other campus workstations, these computers feature PCTeX and LaTeX typesetting of technical documents.

**Math Study Room:** Mathematics students have their own study room in the Science Building equipped with blackboards, whiteboards, comfortable chairs, working desks, and a collection of mathematical journals.

### **Course of Study**

- A. A major in mathematics consists of:
1. At least 36 credits in mathematics including:

- a. Mathematics core: MAT 221, 222, 223, 224, 231, 233, 351, 421, 431.
  - b. Depth: At least one of MAT 422, 423, 432.
  - c. Applications: At least one of MAT 352, 361, 371, 373, 475.
2. Collateral requirement: CSC 131.
  3. A concentration of at least 12 credits in an application area other than mathematics.

Grade Point Average: To have a major in mathematics approved for graduation, a student must have a minimum cumulative GPA of 2.50 in courses selected by the student to satisfy the major. In addition, a grade of C or better must be achieved in at least 12 of the credits in the mathematics courses numbered 300 or above.

Admission to the Major in Mathematics: Students wishing to earn a major in mathematics are required to take the comprehensive calculus (compcalc) exam. The exam is given during the spring semester and covers the content of MAT 221, 222, and 223. The compcalc is an excellent opportunity to review basic analysis before enrolling in upper-level courses. Normally the compcalc is taken in the spring semester of the sophomore year. Admittance to the major in mathematics will be determined on the basis of performance on the compcalc and performance in Foundations of Higher Mathematics (MAT 231). Students who are found to have deficiencies have the right to remove them by examination before the fall semester immediately following the semester in which they took their compcalc. Students who fail this examination will be denied admittance to the mathematics major.

- B. A minor in mathematics consists of at least 21 credits in mathematics at the 200 level or higher including:
  1. Mathematics core: MAT 221, 222, 223.
  2. Continuous or discrete option: MAT 224 or MAT 230.
  3. Applications: One course chosen from MAT 351, 352, 361, 371, 373, 432, 475.

Note: The minor in mathematics differs from a teaching minor in mathematics at both the elementary and secondary level. For more information on this minor, please see the Education Department.

Grade Point Average: To have a minor in mathematics approved for graduation, a student must have a minimum GPA of 2.00 in all mathematics courses selected by the student to satisfy the minor.

Placement testing in mathematics is required of all students who need to enroll in mathematics at Wisconsin Lutheran College for the first time. This includes transfer students having an uncertain attainment level or college mathematics credits more than two years old. Students desiring advanced placement in calculus also need to demonstrate proficiency on the placement exams. In all cases the department of mathematics will decide which students require placement testing. The department of mathematics determines a student's mathematics placement on the basis of high school grades, ACT/SAT scores, placement testing, and (if necessary) personal interview.

## Course Descriptions

### **MAT 116 Mathematics for Life. 3 cr.**

Mathematical topics relevant to living in modern society with special emphasis placed upon the uses of mathematical ideas and mathematical thought processes. Topics include critical thinking, problem-solving, sets, logic, matrices, and geometry. Especially appropriate for students seeking the BA degree who do not plan on taking any additional mathematics courses such as statistics, or calculus.

### **MAT 117 Elementary Statistics. 3 cr.**

Statistical concepts and methods for application in other disciplines. Descriptive statistics, bivariate linear models, probability, discrete and normal distributions, central limit theorem, estimation, hypothesis testing. MAT 117 does not count toward a mathematics major or minor. Prereq: placement.

### **MAT 120 Precalculus. 4 cr.**

Fundamental principles of college algebra and trigonometry essential to the study of calculus. Emphasis on functions and their graphs, including polynomials, rational functions, exponential and logarithmic functions, trigonometric functions. Prereq: placement

### **MAT 210 Survey of Calculus. 4 cr.**

Survey of concepts and applications of differential and integral calculus for BA and Business Administration majors. Only one of MAT 210 and MAT 221 may be taken for credit. Prereq: placement or MAT 120 with a grade of BC or better.

### **MAT 221 Calculus 1. 4 cr.**

Intensive introduction to single-variable calculus. Functions, limits and continuity, differentiation of algebraic and transcendental functions, introduction to integration and differential equations. Application topics and lab assignments. Prereq: placement or credit in MAT 120 with a grade of BC or better.

### **MAT 222 Calculus 2. 4 cr.**

Continuation of MAT 221. Applications of integration, integration techniques, indeterminate forms and improper integrals, sequences and series, parametric equations in the plane, polar coordinates, first and second order ordinary differential equations. Application topics and lab assignments. Prereq: placement or MAT 221 with a grade of C or better.

### **MAT 223 Calculus 3. 4 cr.**

Intensive introduction to multi-variable calculus. Analytic geometry of vectors, vector-valued functions, continuity and partial differentiation for functions of several variables, multiple integration, vector fields, theorems of Green, Gauss, and Stoke. Application topics, assignments using Maple. Prereq: placement or MAT 222 with a grade of C or better.

### **MAT 224 Ordinary Differential Equations. 4 cr.**

Ordinary differential equations and solution methods, linear systems of differential equations, selected topics. Modeling emphasis, several lab assignments. Prereq: MAT 222. MAT 223 and 233 recommended.

**MAT 230 Introduction to Discrete Mathematics. 4 cr.**

An introduction to the various tools and techniques in discrete mathematics. Topics include mathematical logic, sets, relations, algorithms, combinatorics, recursion, graph theory, trees, network models, and Boolean algebras. Prereq: MAT 222 or permission of the instructor.

**MAT 231 Foundations of Higher Mathematics. 3 cr.**

A transitional course to prepare students for upper-level courses in mathematics. Logic, proof techniques, set theory, functions, countable and uncountable sets, finite induction, equivalence relations. Topics selected by the instructor. Prereq: MAT 222 or permission of the instructor.

**MAT 333 Introduction to Linear Algebra. 4 cr.**

Matrix algebra, Gauss-Jordan elimination, vector spaces, linear independence, determinants, orthogonality, linear transformations and their matrix representation, eigenvalues and eigenvectors, and applications. Prereq: MAT 222 and junior standing or consent of instructor.

**MAT 340 Survey of Geometry. 3 cr.**

Selected topics in Euclidean and non-Euclidean geometries, Hilbert's axioms and neutral geometry, hyperbolic geometry, historical perspectives, philosophy of mathematics. Emphasis on the role and independence of the parallel postulate. Prereq: junior standing and MAT 231.

**MAT 351 Introduction to Probability. 3 cr.**

Probability in discrete and continuous sample spaces, random variables, distribution functions, marginal and conditional distributions, expectation, independence, limit theorems, basic distributions. Prereq: junior standing and MAT 222, MAT 223 recommended.

**MAT 352 Introduction to Statistics. 3 cr.**

Random samples, estimation, sampling distributions of estimators,  $t$  and Chi-Square distributions, confidence intervals, hypothesis testing, nonparametric methods, linear models. Prereq: MAT 351.

**MAT 361 Introduction to Operations Research. 3 cr.**

Survey of topics in linear programming and applications, network and flow models, dynamic programming, and selected topics. Emphasis on modeling. Prereq: MAT 222.

**MAT 371 Numerical Analysis. 3 cr.**

Numerical methods for digital computers: error analysis, solution of nonlinear equations and systems of equations, direct methods for solving linear systems, discrete curve fitting, interpolation. Prereq: junior standing, MAT 224, and CSC 131.

**MAT 373 Introduction to Cryptography. 3 cr.**

An introduction to the field of classical and mathematical cryptography. Topics include linguistic techniques and classical cryptographic methods, key exchange protocols, public key cryptography, factoring techniques and primality testing, digital signatures, hash functions, secret sharing schemes, and relevant number theoretic methods. Prereq: sophomore standing and MAT 222 or MAT 230. This course is cross-listed with CSC 373.

**MAT 421 Analysis 1. 3 cr.**

Classical real analysis: completeness of real numbers, sequences and series, metric topology of Euclidean space, continuity, uniform continuity, differentiation, and uniform convergence. Prereq: MAT 231 or permission of instructor.

**MAT 422 Analysis 2. 3 cr.**

Continuation of MAT 421: differentiable mappings, inverse and implicit function theorems, theory of integration, and selected topics. Prereq: MAT 421.

**MAT 423 Complex Analysis. 3 cr.**

Complex numbers and analytic functions, Cauchy integral theorems and formulas, Taylor series and entire functions, singularities and the Laurent expansion, residues. Prereq: MAT 421

**MAT 431 Abstract Algebra 1. 3 cr.**

Group theory: symmetry, subgroups, cyclic groups, permutations, Lagrange's theorem, factor groups, homomorphisms, isomorphisms, direct products, finite abelian groups. Introduction to rings and integral domains. Prereq: junior standing and MAT 231.

**MAT 432 Abstract Algebra 2. 3 cr.**

Continuation of MAT 431: polynomial rings, unique factorization, divisibility in integral domains. Introduction to field theory: splitting fields, algebraic extensions, finite fields, geometric constructions. Advanced topics in groups and fields. Prereq: MAT 431.

**MAT 445 Topology. 3 cr.**

Topological spaces and subspaces, basis and subbasis, accumulation points, continuity and homeomorphism; metric, product, and quotient spaces; connectedness, compactness, countability axioms, separation axioms, Urysohn's lemma and metrization theorem, Tietze extension theorem, Tychonoff's theorem. Prereq: MAT 421.

**MAT 475 Partial Differential Equations. 3 cr.**

Introduction to the classical parabolic, hyperbolic, and elliptic partial differential equations with special consideration to heat transfer, wave motion, and potential theory. Various initial/boundary conditions and applications. Transform methods, equations in several coordinate systems, and numerical approximations. Modeling will be an integral part of the course. Prereq: MAT 224.

**MAT x91 Special Topics. 3 cr.**

Selected advanced topics in mathematics. Content varies. Course may be taken for credit more than once with different topics. Offered as needed. Prereq: consent of instructor.

**MAT 199-499 Independent Study. 1-3 cr.**

By arrangement with instructor.

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## MEDIA DESIGN (MDS)

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The goal of this interdisciplinary major is to produce four-year graduates who can apply for entry-level positions in design, business, and/or communications careers. Graduates will be liberally educated, integrative thinkers, problem solvers, and successful employees because they can take advantage of generalist



and specialist experiences and training during their undergraduate education at WLC. Graduates will have had coursework in current software, to include Adobe Creative Suite and sophisticated text editors for computer code.

A student majoring in Media Design may not also major or minor in Art.

### Course of Study

A major in media design consists of:

1. Foundation courses: ART 101, 121, 231.
2. Core courses: ART 240, 241, 242, 303, 304, 342, 497, BUS 240, 343, COM 301, MDS 440.
3. Appreciation: At least 3 credits from the following: ART 211, 212, 213, 306, 307, 400.
4. Studio Electives: At least 6 credits from the following electives: ART 102, 122, 201, 222, 251, 274, 360.
5. Adv. Studio Electives: At least 3 credits from the following electives: ART 202, 275, 350, 360, or 381.

#### **MDS 101 Web Concepts for Non-Designers. 2 cr.**

This course is an introduction to design and content for web environments. Focused on four practical parts, the course teaches basic elements and properties of code, functions of a WYSIWYG engine within a Content Management System, the elements and principles of effective design, and current trends and strategies. Every student in this course will create their own web site, applicable to their academic and career interests.

#### **MDS 440 Portfolio Development. 3 cr.**

This course builds an awareness of professional practices in the field of design, emphasizing the production of a body of work, for a final portfolio. Additional focus will be given to print or web design based on individual students skills and interests. Prereq: Media Design Major

## MUSIC (MUS)

Wisconsin Lutheran College's music program focuses on both the science and artistry of this sacred and ancient communication tool. By pursuing a major or minor in music, a student will acquire the knowledge and perception essential to excellent musicianship. The program features academic studies in music analysis, music literature and repertoire, and the historical development of music. Additionally, private lessons, master classes, recitals, and vocal and instrumental performing groups serve to advance and strengthen the student's skills in making music.

Students who pursue a major in music can select from six academic tracks. The music education track, either in choral or instrumental music, is designed to equip, develop, and certify candidates for teaching general music (grades K-12) and choral music (grades 6-12) or instrumental music (grades K-12) programs in Wisconsin public school systems. The church music track equips students with the skills and knowledge useful for serving as a church musician. The

music history/literature track provides the student with a historical understanding of music while expanding the student's repertoire. The music theory/composition track stimulates creative composition and arrangement through intensive analysis of scores and original composition. The music performance track, either in vocal, keyboard, or instrumental, is designed to prepare students for a career in performance on their major instrument. The piano pedagogy track trains students to teach music at the piano to students of all ages. All tracks can prepare students for graduate studies in the respective fields.

### *Distinctiveness*

Music is both artistry and science. Wisconsin Lutheran's music program offers the chance to study both the methods and the aesthetics of this powerful mode of communication. You can develop your talents and enjoy the enriching, broadening experience of music performance, both individually and as part of a group.

The College's popular performing artist series brings nationally and internationally recognized artists to campus on a regular basis.

The Music Department at Wisconsin Lutheran is housed in the Center for Arts and Performance, featuring a 370-seat concert hall, practice rooms, a rehearsal hall, a multimedia lecture hall, and an electronic music lab. This state-of-art facility is home to the College's fine performing ensembles, including the following ensembles.

### *Ensemble Opportunities*

#### **Wisconsin Lutheran Choir**

Performs for college concerts and chapel and is open to any Wisconsin Lutheran student. The choir also performs on an annual concert tour. Membership by audition.

#### **Chamber Choir**

A select group of 24 singers who perform both on an off campus. Membership by audition.

#### **Chapel Choir**

An ensemble who perform regularly for chapel and in campus concerts.

#### **Concert Band**

Open to any Wisconsin Lutheran student and performs traditional concert band repertoire for college concerts. The band also performs on an annual concert tour. Membership by audition.

#### **Jazz Band**

A small instrumental ensemble devoted to the performance of standard jazz repertoire. Membership by audition.

#### **Handbell Choir**

Open to any Wisconsin Lutheran student, they perform both on and off campus.

Other ensembles include Brass Ensemble, Chamber Ensemble, Flute Choir, Saxophone Ensemble, and Percussion Ensemble.

**Auditions and Proficiency:** Students majoring in music should be aware of the requirements for proficiency tests, recital and concert performance and attendance, juried performance finals, and the

junior/senior recitals. See the Music Department Student Handbook for details.

**Music Lessons:** Students who intend to major in music must take lessons on their major instrument at the beginning and intermediate level each semester they are on campus. The student according to the fee schedule will pay for each semester of applied lessons taken prior to a student declaring music as a major. The cost of music lessons that are required for the major (this may include 1/2 half hour lessons or an hour lesson, depending on the emphasis chosen by the student) will be waived for majors beginning the first semester after they have declared such a major (as early as the first semester sophomore year). The Registrar will provide the Business Office with a list of declared music majors prior to each billing cycle (July and December). Any student taking a music lesson(s) who is on the list will receive a credit for the music lesson(s) charge if the lesson(s) is (are) necessary to complete the major requirements (as demonstrated on the degree audit maintained by the Registrar's Office). If a music major student changes majors, but continues taking lessons, the student will begin paying for lessons at the current per-credit tuition charge beginning the first semester following such a change.

### ***Declaration of a Music Major***

To declare a Music major, students must have completed the following courses:

1. MUS 110, 111, 210, 211.
2. Two hours of lessons in one performance medium.
3. Participated in a major ensemble for one year.
4. Demonstration of sophomore level performance skill on an instrument.
5. GPA of 2.75 in music courses.
6. Demonstration of academic and/or performances potential relative to goals.

Transfer students need to complete at least one semester in music classes before declaring music as a major.

### ***Music Major Tracks***

If your goals include pursuing a career in music, the music major at Wisconsin Lutheran offers a choice of six tracks. Approximately 60-65 credits are needed to complete the music major.

#### **Music Education**

Equips qualified candidates for choral, band or general music education programs at the elementary or secondary education levels with certification by the Department of Public Instruction in Wisconsin. Students may choose either a choral or instrumental track.

#### **Church Music**

Teaches student the skills and knowledge useful for serving as a church musician.

#### **Music History/Literature**

Expands the student's historical understanding and appreciation of music and is geared to prepare the undergraduate for graduate study in music.

#### **Music Theory/Composition**

Stimulates creative composing and arranging (especially for the church) through personal composition and an intensive analysis of scores.

#### **Music Performance**

Prepares students with the knowledge and skills to teach music at the piano to students of all ages, from beginning to late intermediate and early advanced levels.

#### **Piano Pedagogy**

The piano pedagogy track trains students to teach music at the piano to students of all ages.

### ***Music Major/Minor Requirements***

**Recital or Concert Attendance** - All music majors are required to attend five (5) recitals or concerts each semester in residence.

**Ensemble Requirement** - All music majors are expected to participate in a major performing ensemble each semester in residence: Wisconsin Lutheran Choir, Chapel Choir, Jazz Band, or Concert Band.

1. A major in music consists of the following core courses:

Music Theory - 16 credits: MUS 110, 111, 120, 121, 210, 211, 220, 221.

Music History - 9 credits: MUS 302, 303, 305.

A. Choral Music Education: 60 credits

Applied Lessons - 16 credits: Primary Instrument (Voice or Keyboard) [11 cr.], Senior Recital [1 cr.], Secondary Instrument (Voice or Keyboard) [4 cr.].

Ensembles - 8 credits: Choral Ensembles.

Advanced Music Courses - 11 credits: MUS 068, 230, 313, 340, 350.

B. Instrumental Music Education: 65 credits

Applied Lessons - 16 credits: Primary Instrument [11 cr.], Senior Recital [1 cr.], Secondary Instrument [4 cr.].

Ensembles - 8 credits: Major Instrumental Ensembles.

Advanced Music Courses - 16 credits: MUS 040, 045, 050, 055, 060, 069, 070, 230, 313, 351.

C. Church Music: 60 credits

Applied Lessons - 16 credits: Primary Instrument [11 cr.], Senior Recital [1 cr.], Secondary Instrument [4 cr.].

Ensembles - 8 credits.

Advanced Music Courses - 10 credits: MUS 029, 230, 320, 330, 350.

D. Music History/Literature: 60 credits

Applied Lessons - 12 credits: Primary Instrument [7 cr.], Senior Recital [1 cr.], Secondary Instrument [2 cr.], Keyboard [2 cr.].

Ensembles - 8 credits.

Advanced Music Courses - 11 credits: MUS 230, 313, 360, 370.

Advanced Electives - any two of the following: MUS 410,

420, 430, 490, 499.

- E. Music Theory/Composition: 60 credits  
 Applied Lessons - 12 credits: Primary Instrument [7 cr.], Senior Recital [1 cr.], Secondary Instrument [2 cr.], Keyboard [2 cr.].  
 Ensembles - 8 credits.  
 Advanced Music Courses - 11 credits: MUS 230, 313, 360, 370.  
 Advanced Electives - any two of the following: MUS 440, 420, 490, 499.

- F. Vocal Music Performance: 64 credits  
 Applied Lessons - 14 credits: Primary Instrument (Voice) [10 cr.], Junior Recital [1 cr.], Senior Recital [1 cr.], Secondary Instrument (piano) [2 cr.].  
 Ensembles - 10 credits: Large Ensembles [8 cr.], Small Ensembles [2 cr.].  
 Advanced Music Courses - 15 credits: MUS 230, 240, 340, 343, 344, 360, 412.

- G. Instrumental Music Performance: 61 credits  
 Applied Lessons - 14 credits: Primary Instrument [10 cr.], Junior Recital [1 cr.], Senior Recital [1 cr.], Secondary Instrument [2 cr.].  
 Ensembles - 10 credits: Large Ensembles [8 cr.], Small Ensembles [2 cr.].  
 Advanced Music Courses - 12 credits: MUS 230, 313, 341, 360, 430.

- H. Piano Performance: 63 credits  
 Applied Lessons - 14 credits: Primary Instrument [10 cr.], Junior Recital [1 cr.], Senior Recital [1 cr.], Secondary Instrument [2 cr.].  
 Ensembles - 10 credits: Large Ensembles [8 cr.], Small Ensembles [2 cr.].  
 Advanced Music Courses - 14 credits: MUS 230, 240, 313, 342, 360, 411.

- I. Piano Pedagogy: 59 credits  
 Applied Lessons - 14 credits: [6 cr.] must be MUS 282, Senior Recital [1 cr.], Secondary Instrument [2 cr.].  
 Ensembles - 4 credits: MUS 021, 022, 023, or 025.  
 Advanced Music Courses - 14 credits: MUS 230, 240, 342, 345, 360, 411.

Cross-discipline course - 3 credits: EDU 221 and 292.

2. A minor in music consists of the following core courses:  
 Music Theory - 8 credits: MUS 110, 111, 120, 121.  
 Music History - at least 6 credits from: MUS 302, 303, 305.  
 Applied Lessons - 4 credits: Primary Instrument.

Ensembles - 6 credits: Instrumental Ensembles.

Advanced Music Courses - 2 credits: MUS 230.

3. A minor in church music consists of the following core courses:  
 Music Theory - 8 credits: MUS 110, 111, 120, 121.  
 Music History - at least 3 credits from: MUS 302, 303, 305.  
 Church Music Courses - at least 2 credits from: MUS 320, 330, THE 212.  
 Applied Lessons - 4 credits (same instrument): Piano, Organ, or Voice.  
 Ensembles - 2 credits of MUS -029 and 2 credits of MUS 021 or 023.  
 Advanced Music Courses - 5 credits: MUS 230 and 350.

4. A minor in piano pedagogy consists of the following core courses:  
 Music Theory - 8 credits: MUS 110, 111, 120, 121.  
 Music History - at least 6 credits from: MUS 302, 303, 305.  
 Piano Pedagogy - 4 credits: MUS 342 and 345.  
 Applied Lessons - 4 credits in piano from: MUS 084, 088, and 182..  
 Ensembles - 2 credits from: MUS 021, 023, 025, 028 or 067.  
 Advanced Music Courses - 2 credits: MUS 411.

## Music Course Descriptions

### **MUS 021 Wisconsin Lutheran Choir. 1 cr.**

The Wisconsin Lutheran Choir is a select mixed choral ensemble that explores all the best in choral literature. The ensemble presents concerts on campus and tours regionally, nationally, and internationally. The choir rehearses five hours each week. Membership is by audition only. Large ensemble.

### **MUS 022 Chamber Choir. 1 cr.**

The Chamber Choir is a select 24 voice mixed choral ensemble. Members of the Chamber Choir must also be enrolled in the Wisconsin Lutheran Choir. The chorus will meet three hours each week. Membership is by audition only. Small ensemble.

### **MUS 023 Chapel Choir. 1 cr.**

The Chapel Choir is a choral ensemble with an emphasis given to developing the musical and vocal skills of its members. The chorus will perform for chapel and at the various concerts of the music department each semester. The chorus will meet two hours each week. Large ensemble.

### **MUS 025 Concert Band. 1 cr.**

The Concert Band is a select instrumental ensemble that explores all the best in wind band literature. The ensemble presents concerts on campus and tours regionally, nationally and internationally. The band rehearses five hours each week. Membership is by audition only. Large ensemble.

### **MUS 028 Jazz Band. 1 cr.**

The Jazz Band meets for two hours each week. The ensemble performs on campus and for community functions. Membership is by audition only. Large ensemble.

**MUS 029 Handbells. 1 cr.**

The Handbells will meet for two hours each week. The ensemble performs on campus and for community functions. (Placement by director is required.) Small ensemble.

**MUS 046 Saxophone Ensemble. 1 cr.**

The Saxophone Ensemble will meet for two hours each week. Membership is by audition only. The ensemble performs in campus concert and recitals. Small ensemble.

**MUS 048 Flute Choir. 1 cr.**

The Flute Choir will meet for two hours each week. The ensemble performs in campus recitals and for community functions. Membership is by audition only. Small ensemble.

**MUS 049 Clarinet Ensemble. 1 cr.**

The Clarinet Ensemble will meet for two hours each week. Membership is by audition only. The ensemble performs in campus concert and recitals. Small ensemble.

**MUS 057 Brass Ensemble. 1 cr.**

The Brass ensemble will meet for two hours each week. The ensemble performs in campus recitals and for community functions. Membership is by audition only. Small ensemble.

**MUS 058 Trumpet Ensemble. 1 cr.**

The Trumpet ensemble will meet for two hours each week. The ensemble performs in campus recitals and for community functions. Membership is by audition only. Small ensemble.

**MUS 059 Trombone Ensemble. 1 cr.**

The Trombone ensemble will meet for two hours each week. The ensemble performs in campus recitals and for community functions. Membership is by audition only. Small ensemble.

**MUS 067 Chamber Ensemble. 1 cr.**

The Chamber Ensemble will meet for two hours each week. This string ensemble performs in campus recitals and for community functions. Membership is by audition only. Small ensemble.

**MUS 077 Percussion Ensemble. 1 cr.**

The Percussion ensemble will meet for two hours each week. The ensemble performs in campus recitals and for community functions. Membership is by audition only. Small ensemble.

**MUS 078 World Drumming. 1 cr.**

This course is intended as an introduction to hand drumming in the African and Afro Cuban style. General degree students, drum enthusiasts, education majors and music education majors will learn how to present this music in performance. Future educators will learn how to teach this music and how to incorporate drumming into their curricula. This ensemble meets two hours a week, and at the instructor's discretion may participate in campus performances and concerts.

***Voice***

**MUS 031 Voice Class 1. 1 cr.**

This course is intended for beginners in voice and shall be limited to

a maximum of 6 students per section. Basic singing techniques will be taught, including an understanding of the various muscles used, projection, support, the shaping of the jaw and tongue, etc. Beginners are encouraged to sign up for this rather than for MUS 133. The class will meet twice a week. There is no special fee for enrolling in this class as there is for private lessons.

**MUS 032 Voice Class 2. 1 cr.**

Continuation of techniques in MUS 031. No prerequisite.

**MUS 133 Private Voice Lessons. 1 cr.**

This course is intended for those who are beyond the beginning level of instruction in voice. Enrollment in this course entails the private lesson fee per credit hour. Prereq: MUS 031 and/or MUS 032 or placement by audition.

**MUS 233 Private Voice Lessons. 2 cr.**

Enrollment in this course entails the private lesson fee per credit hour. Prereq: MUS 133

***Woodwinds***

**MUS 040 Woodwind Techniques - Single Reed. 1 cr.**

A study of the basic fingering, tonguing, care, and pedagogy of the flute and single reed woodwinds. Intended for instrumental music education majors.

**MUS 045 Woodwind Techniques - Double Reed. 1 cr.**

A study of the basic fingering, tonguing, care, and pedagogy of the double reed woodwinds. Intended for instrumental music education majors.

**MUS 141 Flute Lessons. 1 cr.**

**MUS 142 Clarinet Lessons. 1 cr.**

**MUS 143 Saxophone Lessons. 1 cr.**

**MUS 144 Recorder Lessons. 1 cr.**

**MUS 146 Oboe Lessons. 1 cr.**

**MUS 147 Bassoon Lessons. 1 cr.**

**MUS 241 Flute Lessons. 2 cr.**

**MUS 242 Clarinet Lessons. 2 cr.**

**MUS 243 Saxophone Lessons. 2 cr.**

**MUS 244 Recorder Lessons. 2 cr.**

**MUS 246 Oboe Lessons. 2 cr.**

**MUS 247 Bassoon Lessons. 2 cr.**

***Brass***

**MUS 050 Brass Techniques - High. 1 cr.**

A study of the basic fingering, tonguing, care, and pedagogy of the trumpet and french horn. Intended for instrumental music education majors.

**MUS 055 Brass Techniques - Low. 1 cr.**

A study of the basic fingering, tonguing, care, and pedagogy of the trombone, euphonium and tuba. Intended for instrumental music education majors.

**MUS 151 Trumpet Lessons. 1 cr.**

**MUS 152 French Horn Lessons. 1 cr.**  
**MUS 156 Trombone Lessons. 1 cr.**  
**MUS 157 Baritone Lessons. 1 cr.**  
**MUS 158 Tuba Lessons. 1 cr.**  
**MUS 251 Trumpet Lessons. 2 cr.**  
**MUS 252 French Horn Lessons. 2 cr.**  
**MUS 256 Trombone Lessons. 2 cr.**  
**MUS 257 Baritone Lessons. 2 cr.**  
**MUS 258 Tuba Lessons. 2 cr.**

### *Strings*

**MUS 060 String Techniques - High. 1 cr.**  
 A study of basic fingering, bowing, care, and pedagogy of the violin and viola. Intended for instrumental music education majors.

**MUS 065 String Techniques - Low. 1-2 cr.**  
 A study of basic fingering, bowing, care, and pedagogy of the cello and string bass. Intended for instrumental music education majors.

**MUS 161 Violin Lessons. 1 cr.**  
**MUS 162 Viola Lessons. 1 cr.**  
**MUS 163 Guitar Lessons. 1 cr.**  
**MUS 166 Cello Lessons. 1 cr.**  
**MUS 167 String Bass Lessons. 1 cr.**

**MUS 168 Guitar and Autoharp Lessons. 1 cr.**  
 Intended for music education majors. Required for both vocal and instrumental music education.

**MUS 261 Violin Lessons. 2 cr.**  
**MUS 262 Viola Lessons. 2 cr.**  
**MUS 263 Guitar Lessons. 2 cr.**  
**MUS 266 Cello Lessons. 2 cr.**  
**MUS 267 String Bass Lessons. 2 cr.**

### *Percussion*

**MUS 070 Percussion Techniques. 1 cr.**  
 A study of basic technique in playing all the major concert percussion instruments. Intended for non-percussion instrumental music education majors.

**MUS 171 Snare Drum Lessons. 1 cr.**  
**MUS 172 Timpani Lessons. 1 cr.**  
**MUS 173 Xylophone or Marimba Lessons. 1 cr.**  
**MUS 271 Snare Drum Lessons. 2 cr.**  
**MUS 272 Timpani Lessons. 2 cr.**  
**MUS 273 Xylophone or Marimba Lessons. 2 cr.**

### *Keyboard*

**MUS 083 Class Piano 1. 1 cr.**  
 The development of basic music reading skills at the piano keyboard. Includes technique, sight reading, basic keyboard harmonization, improvisation, accompaniment and elementary piano repertoire. This

course is designed for students who have no prior piano experience. It is also appropriate for students who have had up to two years of prior piano lessons but who wish a thorough review. May be substituted for one semester of MUS 182. Prerequisite: None.

**MUS 084 Class Piano 2. 1 cr.**  
 Continuation of MUS 083. This course is designed for students who have had two to four years of lessons or who have had MUS 083 Piano Class 1. May be substituted for one semester of MUS 182.

**MUS 087 Organ Class. 1 cr.**  
 Prerequisite: Ability to play four part chorales (at the piano keyboard) such as those found in Christian Worship or any standard Christian hymnal. Open to non-majors. The development of fundamental organ playing skills. This includes the basic fundamentals of organ keyboard and pedal technique, registration, organ repertoire, hymn and liturgy accompaniment, improvisation, and the accompaniment of congregational singing. This class may be substituted for one credit of MUS 181 Organ Lessons.

**MUS 088 Advanced Piano Class. 1 cr.**  
 The course is open to non-majors, but is also designed to meet the needs of music majors. The course is designed to develop advanced piano performance skills. As with MUS 182, each student will develop the ability to apply theoretical music knowledge to the practical application of performing music at the piano. This class may be substituted for one credit of MUS 182. Prereq: MUS 084 or placement.

**MUS 181 Organ Lessons. 1 cr.**

**MUS 182 Piano Lessons. 1 cr.**  
 This course is intended for those who are beyond the beginning level of instruction in piano, as covered in MUS 083 and 084.

**MUS 183 Jazz Improvisation Lessons. 1 cr.**  
 In an applied lesson setting, students will learn to perform standard jazz repertoire, to interact skillfully in a jazz ensemble, to improvise using authentic techniques of the jazz idiom, to understand and utilize the essential elements of jazz theory, and to understand the history of jazz music and how to use it as a resource in developing their individual playing style. Prereq: Basic proficiency on your instrument.

**MUS 184 Applied Harpsichord. 1 cr.**  
 Students will learn proper technique for playing the harpsichord, and will learn appropriate stylistic practice for performing music written for the harpsichord. Prereq: At least two semesters of MUS 181 or MUS 182 or approval from the Music Department.

**MUS 281 Organ Lessons. 2 cr.**

**MUS 282 Piano Lessons. 2 cr.**  
 This course is intended for those who are beyond the beginning level of instruction in piano, as covered in MUS 083 and 084.

**MUS 284 Applied Harpsichord. 2 cr.**  
 Students will learn proper technique for playing the harpsichord, and will learn appropriate stylistic practice for performing music written for the harpsichord. Prereq: At least two semesters of MUS 181 or

MUS 182 or approval from the Music Department.

**Academic Studies in Music**

**MUS 100 Music Appreciation. 3 cr.**

A survey of the basic rudiments of music making and a survey of the history of music. Intended for non-music majors.

**MUS 101 Music Fundamentals. 3 cr.**

This course will provide instruction in the fundamentals of music theory and aural skills including: pitch notation, rhythmic notation, clefs, scales, intervals, chords, sight reading, ear training, and basic keyboard harmonization.

**MUS 110 Music Theory 1/Sightsinging. 3 cr.**

Basic harmonic theory including scales, intervals, chords and basic part-writing.

**MUS 111 Aural Skills. 1 cr.**

College level study of keyboard harmony, sights-singing, melodic dictation, rhythmic dictation, harmonic dictation, and related aural skills, as they apply to and enhance the study of written music theory. To be taken concurrently with MUS 110.

**MUS 120 Music Theory 2/Sightsinging. 3 cr.**

A continuation of the study of basic theory including Dominant 7th chords, Diminished 7th chords, other Diatonic 7th chords, secondary dominants, and modulations. Prereq: MUS 110.

**MUS 121 Aural Skills. 1 cr.**

Continuation of MUS 111. To be taken concurrently with MUS 120. Prereq: MUS 111.

**MUS 210 Music Theory 3/Sightsinging. 3 cr.**

A continuation of music theory including the study of altered chords including borrowed chords, augmented sixth chords, chords of 9th, 11th and 13th. Prereq: MUS 120.

**MUS 211 Aural Skills 3. 1 cr.**

Continuing the study of keyboard harmony (i.e. harmonizing melodies at the keyboard, realizing of figured bass, and employing of chords learned in MUS 210), sight-singing, melodic dictation, rhythmic dictation, harmonic dictation, and related aural skills, as they apply to and enhance the study of third semester music theory. To be taken concurrently with MUS 210. Prereq: MUS 121.

**MUS 220 Music Theory 4/Sightsinging. 3 cr.**

A study of Post Romantic and Twentieth century theory. Prereq: MUS 210.

**MUS 221 Aural Skills 4. 1 cr.**

Continuation of MUS 211, including sight-singing, melodic, rhythmic and harmonic dictation, as they apply to and enhance the study of fourth semester music theory integrated with harmonizing melodies at the keyboard, realized figured bass, employing contrapuntal techniques as learned in MUS 220. To be taken concurrently with MUS 220. Prereq: MUS 211.

**MUS 230 Conducting Fundamentals. 2 cr.**

An introduction to conducting which provides the fundamentals of hand and stick techniques, basic problems encountered in conducting

and opportunities for actual practical experience.

**MUS 240 Accompanying. 2 cr.**

The basic techniques and principles of accompanying vocal and instrumental ensembles including sight-reading, part-playing, transpositions, and reading from open score.

**MUS 302 Music History 1. 3 cr.**

A detailed study of the various styles, composers, genre, and masterpieces from the Greek, Medieval, and Renaissance Eras. Music will be viewed in its social, political and cultural context. Prereq: MUS 120.

**MUS 303 Music History 2. 3 cr.**

A detailed study of the various styles, composers, genre, and masterpieces from the Baroque and Classical Eras. Music will be viewed in its social, political and cultural context. Prereq: MUS 120.

**MUS 305 Music History 3. 3 cr.**

A detailed study of the various styles, composers, genre, and masterpieces from the Romantic and Twentieth Century Eras. Music will be viewed in its social, political and cultural context. Prereq: MUS 120.

**MUS 313 Music Arranging. 3 cr.**

Vocal and instrumental ensembles are studied through analysis, score-reading, and listening for the purpose of writing and arranging for various musical groups. Projects in scoring and arranging for several ensembles are completed. Prereq: MUS 220.

**MUS 320 Hymnology. 2 cr.**

A survey of hymnologies literature, sources, historical background, and composers.

**MUS 330 Liturgical Christian Worship. 2 cr.**

A look at the historical moorings and development of liturgical worship, particularly as it applies to the Lutheran church.

**MUS 340 Vocal Pedagogy. 2 cr.**

This course examines basic vocal anatomy, analysis of vocal problems and corrective procedures, and the use and care of the vocal mechanism. Intended for music majors with a vocal education emphasis and vocal performance emphasis. Prereq: 2 semesters of Voice class or Voice Lessons.

**MUS 341 Instrumental Pedagogy. 2 cr.**

Explores the methods, materials, and objectives of effective instrumental pedagogy. Intended for music majors with instrumental performance emphasis (other than piano). Prereq: 2 semesters of lessons in the student's primary instrument.

**MUS 342 Piano Pedagogy 1. 2 cr.**

Explores the methods, materials, and objectives of effective piano pedagogy. Includes studio management, pedagogical methods and practical experience in piano instruction. Intended for music majors with piano performance emphasis. Prereq: 2 semesters of any combination of MUS 084, 088 or 182.

**MUS 343 English and Italian Diction. 2 cr.**

An introduction to the pronunciation for singing of English and

Italian languages. Intended for music majors with a vocal education emphasis or vocal performance emphasis. Prereq: 2 semesters of Voice class or Lessons.

**MUS 344 French and German Diction. 2 cr.**

An introduction to the pronunciation for singing of French and German languages. Intended for music majors with a vocal education emphasis or vocal performance emphasis. Prereq: 2 semesters of Voice class or Lessons.

**MUS 345 Piano Pedagogy 2. 2 cr.**

In this course students will develop the skills necessary to successfully teach piano to intermediate, late intermediate and early advanced level students of all ages. Students will learn to organize, manage, and adjudicate piano auditions, festivals, and competitions. Prerequisite: Music 342 or consent of the instructor

**MUS 350 Choral Conducting and Literature. 3 cr.**

Continued development of conducting skills with special emphasis on conducting choral music and the literature of choral music from the Medieval Era through the Twentieth Century. Prereq: MUS 230.

**MUS 351 Instrumental Conducting and Literature. 3 cr.**

Continued development of conducting skills with special emphasis on conducting instrumental music and the literature of instrumental ensemble music. Prereq: MUS 230.

**MUS 360 Form and Analysis. 3 cr.**

A concentrated study of the structural features of various instrumental and vocal forms. Emphasis on larger forms: development types, fugal, and large sectional forms. Prereq: MUS 220.

**MUS 370 Counterpoint. 3 cr.**

A study of eighteenth century contrapuntal styles, forms and techniques. Written exercises lead to the analysis and writing of short suite type movements, canons, and fugal forms. Prereq: MUS 210.

**MUS 398 Junior Recital. 1 cr.**

Performance majors must present a recital of a half-hour in duration in their junior year. Prereq: Permission of instructor.

**MUS 410 Survey of Sacred Choral Literature. 2 cr.**

The study and analysis of sacred choral music over the past five centuries.

**MUS 411 Piano Literature. 2 cr.**

A study of the piano literature from the seventeenth century to the present by listening, analyzing and performing. Intended for music majors with a piano performance emphasis. Prereq: MUS 303 or MUS 305.

**MUS 412 Vocal Literature. 2 cr.**

A survey of European and American art songs, opera, and solo repertoire from major choral works. Intended for music majors with a vocal education emphasis and vocal performance emphasis. Prereq: MUS 303 or MUS 305.

**MUS 420 Opera. 2 cr.**

A historical survey of the development of opera from the time of Monteverdi through contemporary opera. Prereq: MUS 303 and 305.

**MUS 430 Symphony. 2 cr.**

A historical survey of the development of the symphony from the Pre-classical era through the Twentieth Century. Prereq: MUS 303 and 305.

**MUS 440 Composition. 2 cr.**

A study of the essential features and techniques necessary for serious composing. Regular assignments will be shared and analyzed in class. Prereq: MUS 220.

**MUS 490 Music Internship. 1 - 3 cr.**

Special work in music or music related area either on or off campus. Prereq: Permission of instructor.

**MUS x91 Special Topics. 1 - 3 cr.**

Special topics in music May be repeated. Prereq: varies with topic.

**MUS 498 Senior Recital. 1 cr.**

All music majors shall present a senior recital. Performance majors must present a recital of one hour in duration; all other majors present a recital of half-hour duration. Prereq: Permission of instructor.

**MUS 199-499 Independent Study. 1 - 3 cr.**

Junior standing or consent of instructor. This course allows the advanced student in music to do special study under the supervision of the instructor. Prereq: Permission of instructor.

## NURSING (NUR)

The nursing program is grounded in Christian motivation and ethics with an emphasis on ministry and service. Professional development is facilitated in four domains – spiritual, intellectual, ethical, and social. The program emphasizes service to others in the form of health ministry and servant leadership. Students acquire a foundation for theory-based professional nursing practice which will promote health and healing within their communities.

The following courses are required before acceptance into the nursing program. A student must also have a minimum CGPA of 2.75 at the time of entrance into the major. All pre-nursing requirements must have been earned in the ten years preceding progression into the major.

BIO 202 Principles of Biology 2  
 BIO 240 Nutrition  
 CHE 161 General Chemistry 1  
 COM 101 Introduction to Communication  
 ENG 101 Expository Writing  
 PSY 101 Introduction to Psychology  
 PSY 120 Human Growth and Development  
 Theology course

The applicant must provide a one-page statement indicating reasons for choosing Nursing and Wisconsin Lutheran College. This should include a description of long-term goals, illuminating critical thinking, caring, communication, and personal characteristics.

Certified Nursing Assistant certification and CPR certification must be completed prior to the first clinical placement. Current CPR certification must be maintained throughout the entire nursing program.

Annual criminal background checks are routine for any healthcare position and will be completed prior to clinical placement. If a student is disqualified by this check, he/she will be dismissed from the nursing program.

The following courses are required to complete the nursing program: BIO 141, BIO 225, BIO 255, BIO 355, MAT 117, PHI 201 and NUR 200, 300, 301, 311, 321, 322, 325, 401, 402, 411, 412, 422, 423, 424, 425.

A minimum grade of “C” is required in all courses and a minimum major GPA of 2.50 upon completion of the program.

Students must also take the following Content Master Exams

1. Fundamentals
2. Pharmacology
3. Children
4. Childbearing
5. Mental Health
6. Community Health
7. Leadership
8. Adult

## Course Descriptions

### **NUR 200 Introduction to Professional Nursing. 3 cr.**

Foundation for the development of the nursing student as a service provider and health care professional. Introduction to essential characteristics of professional nursing practice in diverse settings within complex health care systems and with socioeconomically and culturally diverse populations. Concepts of nursing process, evidence-based practice, collaboration, clinical decision making, lifelong learning, cultural competence, and legal and ethical practice. Requirements of the Health Insurance Portability and Accountability Act (HIPAA) in the context of professional ethics and patient privacy concerns. Opportunity to observe professional nurses in their practice settings. Prereq: Admission to Nursing program.

### **NUR 300 Health Assessment. 3 cr.**

Classroom and laboratory experiences intended to develop students' abilities in assessing patients' health and nursing needs. Opportunities to apply knowledge from liberal arts and nursing theory in simulated patient care situations. Individual practice sessions in the nursing laboratory will be required and students will be evaluated through performance assessments for their readiness to assume the role of caregiver in a variety of clinical settings. Prereq: Admission to Nursing program and NUR 200.

### **NUR 301 Foundations of Nursing Practice. 3 cr.**

Fundamental instruction in therapeutic interventions and nursing care skills across the lifespan. The theoretical foundation of Caring and Culture Care is introduced. Simulated laboratory and actual client care experiences offer the student opportunities to provide basic nursing care to selected clients in a professional, caring manner.

Incorporate principles of nutritional and pharmacological therapies, including medication administration and documentation, and will demonstrate effective use of available technologies to assess, monitor, and evaluate patient care. Take concurrently with NUR 300. Prereq: Admission to Nursing program and NUR 200 and 325.

### **NUR 311 Aging and Long-term Care. 3 cr.**

Assessment, intervention, and nursing care theory and skills with an emphasis on chronic illness and functional health patterns of older adults. Specific disease processes such as diabetes, cardiovascular disease, respiratory disease, and dementias. Focus on nutritional, pharmacological, and social needs of older adults. Begin to develop the professional roles of caregiver and patient advocate in a variety of clinical practice settings, including long-term and elder care facilities. Take concurrently with NUR 300 Prereq: Admission to Nursing program and NUR 301

### **NUR 321 Adult Health. 4 cr.**

Explores acute health care concerns for adults requiring medical or surgical care. Apply the nursing process to the care of adults in compromised health situations. Integrate pathophysiology, pharmacology, and knowledge of chronic health problems with nursing care provided to the adult population. Emphasis on the use of the nursing process to identify physiologic, psychosocial, educational, and cultural needs of adult clients and the development of appropriate nursing interventions. Clinical practice experiences are provided in variety of traditional and non-traditional care settings. Prereq: Admission to Nursing program and NUR 311.

### **NUR 322 Global Health. 3 cr.**

Study the implementation of health care programs across the globe. Issues of human culture and regionalism are addressed in the context of modern international concerns relating to the spread of disease. The role of HIV/AIDS as a catalyst for a grassroots approach to health care will be explored, as well as the role played by national and global politics, including the war on poverty. A selection of world cultures will be examined in the context of disease, poverty, social policy, and warfare. Clinical experience in third world and urban settings. Prereq: Admission to Nursing program and NUR 311.

### **NUR 325 Pharmacology. 3 cr.**

Introduction to general principles of drug therapy, including absorption; distribution, metabolism, and excretion, in order to understand how those principles are related to the use of pharmacotherapeutics in patient care. Physiological effects of pharmaceutical agents and the use of those agents in the treatment of illness, injury, and disease. Current practices in the use of the nursing process as it relates to drug therapy in individuals across the lifespan will be stressed. Prereq: Admission to Nursing program.

### **NUR 401 Evidence-Based Nursing Practice. 2 cr.**

Relevance of nursing models to current and future nursing practice and research. The process of scientific inquiry and the usefulness of the scientific method in problem solving and decision making in nursing practice. Linkages between research, patient care outcomes, cost and quality of care, and assessment of risk. Develop skills in critiquing current research related to professional nursing practice. Prereq: Admission to Nursing program and NUR 321 and NUR 322.

### **NUR 402 Issues and Trends in Professional Nursing. 2 cr.**



Explores the major issues and trends facing the nursing profession in the context of opportunities for the profession. In depth exploration of the historical, philosophical, and social development of professional nursing and strategies for nursing to increase its value to society and improve its public image. Legal and ethical principles that guide professional nursing practice. Examination of political forces that influence change in contemporary health care. Prereq: Admission to Nursing program and NUR 321 and NUR 322.

**NUR 411 The Childbearing Family. 4 cr.**

The unique health care needs of the childbearing years. Nursing interventions which support and promote health and well-being are emphasized in women and families in various states of health and development. Physiologic and psychosocial changes that occur in women from adolescence through adulthood, and health promotion of the developing family are emphasized. Explore the role of the nurse in relation to current research and issues in childbearing. Clinical practice experiences are facilitated in traditional and non-traditional care settings. Prereq: Admission to Nursing program and NUR 321 and NUR 322.

**NUR 412 Child and Adolescent Health. 4 cr.**

Health care needs of children at various developmental stages. Integrate knowledge of developmental, transcultural, and communication theories in the care of children from infancy through adolescence. Nurse's role in providing health promotion, prevention, therapeutic, and restorative care to children and adolescents from diverse cultures in a variety of settings. Trends and issues related to family-centered health care. Clinical practice experiences are facilitated in traditional and non-traditional care settings. Prereq: Admission to Nursing program and NUR 321 and NUR 322.

**NUR 422 Mental Health. 3 cr.**

Concepts of abnormal psychology and introduction to the practice of psychiatric and mental health nursing for individuals, families, and groups in various settings. Emphasizes self-understanding in the student and focuses on therapeutic communication within the nurse-client relationship. Commonly occurring mental health disorders such as addictive behaviors and personality and mood disorders. Clinical practice experience is facilitated in traditional and non-traditional care settings. Prereq: Admission to Nursing program and NUR 411 and NUR 412.

**NUR 423 Community Health. 3 cr.**

Community and public health nursing, health promotion, and the nursing process as applied to diverse communities and populations using a variety of traditional and non-traditional settings. Environmental health, epidemiology, community health care systems, and health care policy. Address identified needs and educates populations across the lifespan, collaborate with other health care professionals, make referrals, and participate in health promotion clinics. Clinical practice experiences in variety of traditional and non-traditional care settings. Prereq: Admission to Nursing program and NUR 411 and NUR 412.

**NUR 424 Leadership in Health Care. 4 cr.**

Theories of leadership, management, and organizations and the process of managing personnel and clinical resources in a practice environment. Concepts of change, conflict negotiation, and preparation for professional practice. Professional communication

is emphasized, and clinical experiences focus on providing nursing care to multiple patients. Prereq: Admission to Nursing program and completion of 5/7 clinical rotations. Prereq: Admission to Nursing program and NUR 411 and NUR 412.

**NUR 425 Transition to Professional Practice. 3 cr.**

This capstone course gives students the opportunity to design and implement a project focused on the provision of nursing services within alternative settings and populations. Students will integrate culture care, diversity concepts, and scripturally-based principles in their project, and they must demonstrate how their project will benefit the community or population. Opportunities to develop a class in health promotion and present the information to a variety of audiences will be provided. Prereq: Admission to Nursing program and completion of 5/7 clinical rotations. Prereq: Admission to Nursing program and NUR 411 and NUR 412.

**NUR x91 Special Topics. 1 - 3 cr.**

Special topics in nursing May be repeated. Prereq: varies with topics.

**NUR 199-499 Independent Study. 1 - 3 cr.**

By arrangement with instructor.

## PHILOSOPHY (PHI)

Why philosophy? In the second century A.D. Justin Martyr set out to find peace and union with God. He thought he could find what he needed in philosophy. As he reports in his Dialogue with Trypho, he sought that peace from a Stoic, from a professional philosopher, from a Pythagorean, and from a Platonist.

After long years of studying (especially Plato), Justin was approached by a venerable old man, someone who knew God firsthand. "In ancient times," the old man explained, "long before the day of these pretended philosophers, there lived certain men, happy, just, and beloved by God, who spoke by the Holy Spirit and foretold many things that have since come to pass. We call them prophets - their writings still remain and those who read them with faith draw great benefits, concerning the beginning and the end of all things, and all a philosopher ought to know - for above all demonstration they were worthy witnesses to the truth."

At these words Justin says that his heart burned within him. As he writes, "That is how and why I became a philosopher. I wish that everyone would make a resolution like my own, and not keep himself a stranger to the words of the Savior."

This is how and why philosophy is practiced at Wisconsin Lutheran College. Each and every philosophy course at WLC is an invitation and an opportunity to join in the Great Conversation. For centuries, thoughtful people have been asking questions about goodness and God, immortality and the soul, what we can know and how we know it, how to make sense of our world, and more. All philosophy classes provide the opportunity to participate in that ancient contemporary discussion.

Throughout, students work diligently to be CHRISTocentric, biblical,

confessional. This is how and why we practice philosophy! A student of philosophy is participating in an ancient and always relevant discipline. He or she is also practicing philosophy with a strong apologetic purpose. Writing in the first century A.D., the apostle Peter urges us, "Always be ready to give a reason (an apologetic, a carefully-thought-out explanation) to everyone who asks you to give an account of that hope you have among yourselves" (1 Peter 3:15).

The philosophy courses have been crafted to serve the student in whichever discipline(s) one is majoring and to help him or her to become an even more interesting and interested human being - no matter what vocation or which graduate courses one follows after college. For the undergraduate who is especially interested in philosophizing, both a major and minor in philosophy are offered.

A major in philosophy is highly recommended as preparation for law, theology, business, management, medicine, journalism, or other careers and areas of service that require the ability to think in a creative and disciplined manner about questions that are new or whose method of solution is debated.

### Course of Study

A major in philosophy consists of at least 33 credits in philosophy including:

1. Core courses: PHI 101, 102 (or 202), 201, 203.
2. Period and topical: at least 12 credits from PHI 310, 311, 312, 313, 314, 315, 316, 317, 318, 319.
3. Systematic studies: At least 6 credits from PHI 401, 402, 403, 404, 499.
4. Capstone course: PHI 480.

A minor in philosophy consists of at least 21 credits in philosophy including:

1. Core courses: PHI 101, 102 (or 202), 201, 203.
2. Period and topical: at least 6 credits from PHI 310, 311, 312, 313, 314, 315, 316, 317, 318, 319.
3. Systematic studies: At least 3 credits from PHI 401, 402, 403, 404, 499.

A maximum of 6 credits from other disciplines are allowed to count toward the major or minor. Acceptable substitutions are listed after course descriptions.

### Course Descriptions

#### PHI 101 Introduction to Philosophy. 3 cr.

The Great Conversation! The student is introduced to philosophy in terms of four great landmarks. Wide-ranging reading and extensive discussion of excerpts from the western thinkers, Thales through Heidegger, enable one to begin forming his or her personal philosophical map.

#### PHI 102 Logic. 3 cr.

"What can be said must be said clearly; what we cannot speak about we must pass over in silence." Informal, formal and categorical logic. Experience in extended real life argumentation and philosophical

writing. *Witgenstein's Tractatus Logico-Philosophicus* is surveyed.

#### PHI 201 Ethics. 3 cr.

"He has shown you, O man, what is good..." How can we lead a truly good life? Ethics defined. Classical sources of the ethical grammar in the Western tradition from Plato and Aristotle to Kant, from the Utilitarians to Rawls. The logic of C.S. Lewis's merely Christian ethic and the Christological ethic of Dietrich Bonhoeffer. Case studies provide rhetorical occasions for in-depth discussions of medical ethics, natural law, pornography, religion and morality, sexual morality, and more. Prerequisite: PHI 101 recommended

#### PHI 202 Apologetics. 3 cr.

"Always be prepared to give an *apologetic*, a carefully considered answer, to everyone who asks you to give the reason for the hope that you have." A rigorous introduction to the ministerial use of reason. The thoughtful consideration of select articles of Christian doctrine with a mind toward the philosophical and intellectual character of credal Christianity. Practice in the dialogic possibilities of introducing Christian truth to the educated. Works of 20th-century apologists such as C.S. Lewis. Acquaintance with current resources for evaluating post-modern society in light of the Christian worldview.

#### PHI 203 Philosophy of Human Nature. 3 cr.

"What then is Man?" One aspect of the course is the contemplation of ten theories of human nature from Confucianism and Upanishadic Hinduism to Scripture, from Plato and Kant to Marx, Freud and Sartre, behavioral psychology and evolutionary psychology. These theories are critically considered both in terms of philosophy of mind (consciousness and self) and moral philosophy (self and others). A consideration of a text such as Taylor's *Sources of the Self* comprises a second aspect of this class. Prerequisite: PHI 101 or discipline approval.

#### PHI 310 Ancient Philosophy. 3 cr.

"Know yourself!" The Pre-Socratics through a preview of St. Augustine. An exploration of the cosmology, the logic and the ethical theory which has made our western civilization what it is: The limits of human philosophy when God's revelation is ignored. The original freight of concepts in the Greek vocabulary, the language in which the apostles and evangelists wrote the New Testament. The writings of Plato and Aristotle form the core of this experience. Prereq: PHI 101 and either PHI 102 or 203, or discipline approval.

#### PHI 311 Medieval and Renaissance Philosophy. 3 cr.

"I believe so that I may understand." A generous sampling of writings from the early Christian fathers (such as Justin Martyr) up through the philosophies of Montaigne and Bruno. A detailed investigation of the roles of faith and reason. The philosophy of Augustine and Aquinas are central concerns, as is Etienne Gilson's *The Spirit of Medieval Philosophy*. Prereq: PHI 101 and either PHI 102 or 203, or discipline approval.

#### PHI 312 Modern (17th & 18th Century) Philosophy. 3 cr.

"I think, therefore I am." Francis Bacon through Mary Wollstonecraft: Is it good philosophy to make the individual the ground of certainty? Should natural science determine our worldview (metaphysics) or the scientific method our theory of knowledge (epistemology)? This study is especially concerned with the philosophies of Descartes and Kant. Prereq: PHI 101 and either PHI 102 or 203, or discipline approval.

**PHI 313 Nineteenth Century German Philosophy. 3 cr.**

"I have therefore found it necessary to deny knowledge in order to make room for faith." An opportunity for a thoughtful student-philosopher to search for "something to help with his or her own intellectual and spiritual perplexities." A philosophy of history. From Kant's Idealism to Fichte, Hegel, and Nietzsche. Prereq: PHI 101 and either PHI 102 or 203, or discipline approval.

**PHI 314 Contemporary (20th Century) Philosophy. 3 cr.**

"A writer who says that all truth is 'merely relative' is asking you not to believe him. So don't." British and Continental thought from Kierkegaard to Sartre. American philosophy from the turn of the century onward: James, Dewey, and Quine. Concurrent survey of major topics in a twenty-first century perspective. Prereq: PHI 101 and either PHI 102 or 203, or discipline approval.

**PHI 315 Philosophy of Art. 3 cr.**

Not every product is art; aesthetics is not mere taste. Gadamer's *Truth and Method* provides the hermeneutical framework from which this study of aesthetics as hermeneutics proceeds. Topics and texts at such as: Aesthetics; Augustine's *De Musica*, Kant's *Critique of Judgment*, Schopenhauer, Nietzsche, Heidegger's "On the Origin of the Working of Art," Scruton's "Art and Imagination"; Neo-Wittgensteinianism, Institutional Theory, Historical Definition of Art. Prereq: PHI 101 and either PHI 102 or 203, or discipline approval.

ART 400 Contemporary Trends may be substituted for credit in place of this course toward the major or minor requirement.

**PHI 316 Philosophy of Science. 3 cr.**

Science grew out of philosophy; from time to time she needs to return home. Science shares with philosophy profound concerns with epistemology (theory of knowledge) and metaphysics (investigation into the structure of reality), as part and parcel of its detailed investigations into foundational and interpretative issues concerned within particular scientific fields such as quantum theory and biological process. Typical texts: Newton, Einstein, Husserl's *The Crisis of European Sciences*, Ayala's "The Concept of Biological Process", Poincare, Kuhn's *The Structure of Scientific Revolutions*, Quine's "Two Dogmas of Empiricism". Prereq: PHI 101 and either PHI 102 or 203, or discipline approval.

PHY 110 The Heavens and the Earth may be substituted for credit in place of this course toward the major or minor requirement.

**PHI 317 Philosophy of Law. 3 cr.**

Law has been a central philosophical concern since the time of the Greeks. Is morality, rule and government derived from a law-governed cosmic order, or is law merely a matter of custom? Natural law, positivistic law, the roles of reason and will in the discovery and formation of law. Textual sources may include: Stoicism, Locke, Mill, H.L.A. Hart, John Finnis. Prereq: PHI 101 and either PHI 102 or 203, or discipline approval.

**PHI 318 Philosophies of Eastern Peoples. 3 cr.**

The naïveté of the traditional presupposition of a dichotomy between Eastern and Western thinking ("Oriental thought is spiritual,

introverted, synthetic and subjective; whereas Occidental thought is materialistic, extroverted, analytic and objective.") has become apparent in our global age. Beginning from a consideration of Eastern antecedents to familiar Western philosophies, this course entails a preliminary examination of the distinctives and commonalities between Western philosophies and Eastern, entailing topics and texts representative of Indian, Chinese, Tibetan and Japanese ways of thinking. Prereq: PHI 101 and either PHI 102 or 203, or discipline approval.

THE 413 World Religions may be substituted for credit in place of this course toward the major or minor requirement.

**PHI 319 Philosophy of Christ and Culture. 3 cr.**

"What indeed has Athens to do with Jerusalem?" A philosophical consideration of Christology. The philosophical freight of the ecumenical creeds. Philosophy's apologetic role in the light of modern insouciance toward special revelation and postmodern incredulity toward all metanarratives. Prereq: PHI 101 and either PHI 102 or 203, or discipline approval.

**PHI 401 Metaphysics. 3 cr.**

"There are more things in heaven and earth than are dreamt of in your philosophy!" Time, identity, mind, freedom, knowing reality. *Heidegger's Introduction to Metaphysics*. A brief introduction to the metaphysics of Rahner, Ortega and Levinas. Metaphysical realism and metaphysical idealism are contemplated. Prereq: PHI 101, 102 (or 202), 201, 203 and a 300-level course, or discipline approval.

**PHI 402 Philosophy of Religion. 3 cr.**

"So then, men are without excuse." The defining, exploring, and examining of the recognized arguments for God's existence. A study of theistic argumentation by way of primary sources, ancient and modern. Traditional and contemporary ways of defining and analyzing God's attributes, His foreknowledge and His providence. The Problem of Evil receives rigorous attention. Prereq: PHI 101, 102 (or 202), 201, 203 and a 300-level course, or discipline approval.

**PHI 403 Advanced Studies Seminar: Great Philosophers. 3 cr.**

This course is a full-semester, intensive examination of the works of one of the great philosophers such as (but not limited to) Plato, Aristotle, Augustine, Hume and Kant. The philosopher is announced by the discipline. This course may be repeated for credit. Prereq: PHI 101, 102 (or 202), 201, 203 and a 300-level course or discipline approval.

**PHI 480 Philosophy Colloquium. 3 cr.**

This capstone course provides philosophy majors with an opportunity to reflect on the meaning of their philosophical training by addressing the question of how the theories of the Western philosophical tradition can be articulated in a reflective conception so as to live one's life in service to God and one's neighbors, intellectually and practically. The study is suitable for the final semester, or – with disciplinary permission only – for the penultimate semester of the philosophy major's undergraduate work and normally culminates in the production and oral presentation / defense of a philosophy thesis. Prereq: successful completion of all but the final semester of courses required for the major, or instructor approval.

**PHI 490 Philosophy Internship / Apprenticeship 1-3 cr.**

By arrangement with the discipline. Prereq: declaration of Philosophy major or minor, or INT major with a significant philosophical component, or instructor approval, normally resulting in a written Philosophy paper.

**PHI x91 Selected Philosophical Topics. 3 cr.**

This course is a full-semester, intensive examination of one significant philosophical topic such as (but not limited to): existentialism, feminist philosophy, philosophy of literature, political philosophy, analytic philosophy (Frege, Russell, Wittgenstein; Quine, Davidson, Rorty) and philosophical hermeneutics. The topic is announced by the discipline. This course may be repeated for credit. Prereq: varies with topics.

**PHI 199-499 Independent Study. 1-3 cr.**

By arrangement with discipline. Prereq: PHI 101, 102 (or 202), 201, 203 and a 300-level course, or discipline approval.

## PHYSICAL EDUCATION (PED)

“As a member of the Body of Christ, all serve and are served, all teach and all learn.” This statement from Wisconsin Lutheran College’s philosophy underscores the value of a coaching minor to our students. A coaching minor equips students to serve and teach in the highly participatory area of athletics, a major arena for Christian witness opportunities.

Coaches, because of the nature of their position, are in a favorable setting to teach concepts which lead to effective living. Healthy competition, teamwork, goal setting, dealing with victory and defeat, and “walking one’s talk” are only a few of the life skills coaches can help to develop in the young athlete. Wisconsin Lutheran College will work with coaches not only in teaching them skills and techniques of leadership, but also by equipping them to lead young athletes with Christian principles found in God’s word.

In addition to the coaching minor, the physical education department offers a variety of electives and applied fitness performance courses which fulfill the physical well-being general degree requirement. PED 101 through 149 are offered for one-half semester. Students must register at the beginning of a semester for courses offered during the first or second quarters. PED courses 150 through 199 are applied fitness performance classes offered for an entire semester three times per week.

### COURSE OF STUDY

A minor in coaching consists of at least 23 credits including:

- A. Required Courses: BIO 225, PED 200, 315, 330, 490, PSY 240, SPE 310, 325.
- B. Elective Courses: At least 2 credits from BIO 255, PED 154, 216, 425 or SPE 425.
- C. Elective Courses: At least 3 credits from PED 331, 332, 333, 334, 335, 336, 337, 338, 339.
- C. Specific Requirements:
  1. A GPA of 2.5 in general degree requirements is required for admission to the minor.
  2. Students seeking teacher certification from Wisconsin Department of Public Instruction must consult the

teacher education department for specific requirements.

3. All students who successfully complete the coaching minor receive a WLC coaching certificate. Teacher education students receive a coaching license.
4. An exit GPA of 3.0 is required in minor courses.

### Course Descriptions

**PED 101 Golf. 1/2 cr.**

Introduction to the terminology, rules, and etiquette of golf. Fundamental skills and techniques: grip, stance, follow through, pitch, chip, and sand traps. Class meets on campus, driving range, and golf course. 7 weeks.

**PED 102 Tennis. 1/2 cr.** Beginning tennis: ground strokes, volleys, serves, scoring, utilization of the court. Class meets in the REX gym and off-campus. 7 weeks.

**PED 103 Contemporary Dance. 1/2 cr.**

A glimpse of ballet, jazz dance, modern dance, aerobic dance, and selected dance forms. Tour of off-campus dance facilities. Class meets in the Siebert Center. 7 weeks.

**PED 104 Bowling. 1/2 cr.**

Fundamentals of bowling: history, scoring, terminology, approach, release. Students compete with each other in a tournament. Class meets off-campus in a bowling alley. 7 weeks.

**PED 105 Martial Arts. 1/2 cr.**

Development of fundamental skills and techniques in Karate as a form of self defense. Class meets in the Siebert Center. 7 weeks.

**PED 106 Archery. 1/2 cr.**

Fundamentals of archery: aiming, release, scoring, terminology. Individual instruction and team competition. Class meets off-campus at an indoor shooting range. 7 weeks.

**PED 107 Badminton. 1/2 cr.**

Fundamentals of badminton: instruction in game rules, stroking technique, court positioning and game strategy. Both singles and doubles games will be discussed. Classes will be held in the REX. 7 weeks.

**PED 152 Cardio Pump. 1 cr.**

Course designed to apply principles of complete personal fitness using cardiorespiratory condition in an active setting. Students will utilize a variety of cardio activities: aerobic step, circuit training, interval training, boot camp, kickboxing and other cardio techniques. Methods for effective strength training and muscle toning through a variety of equipment, fitness planning and goal setting will be introduced for complete understanding of lifelong fitness.

**PED 154 Strength and Power Development. 1 cr.**

Advanced program for improving athletic capacity. Development of flexibility, agility, speed, power, strength, and endurance. Components of the program will be tailored to meet the needs of specific sports. Combination of weight lifting, power lifting, and plyometric exercises in the Strength Room. Intensity: aerobic (low), anaerobic (low to high), muscular (high). Prereq: varsity athlete

status or permission of instructor.

**PED 155 Circuit Training. 1 cr.**

An efficient program of stretching, muscle toning, and cardiorespiratory conditioning. Circuit training on weight machines and a combination of cardio machines in the fitness center. Recommended for students who want a balanced fitness program. Intensity level will vary on experience and current physical condition. Flex-time scheduling.

**PED 200 First Aid, CPR & AED. 1 cr.**

American Heart Association two year certification in First Aid, CPR, and AED. Blood borne pathogen training included. Safety and accident prevention stressed. (Does not fulfill Physical Education GENED or Nursing program requirements)

**PED 216 Strength Training Application/Project. 1 cr.**

Emphasis on various methods of strength development. Students will be taught to design strength training programs for individualized athletics. Designed to supplement PED 154.

**PED 315 Prevention and Care of Athletic Injuries. 2 cr.**

This course includes: common injuries occurring as a result of participating in athletics and physical education activities; procedures and techniques in the prevention and care of injuries; and the understanding of the coaches' and teachers' roles in the care of injuries.

**PED 330 Theory and Methods of Coaching. 1 cr.**

Covers the theory of coaching specific competitive sports including interscholastics, club, youth and/or intercollegiate sports programs.

**PED 331 Coaching of Baseball. 1 cr.**

Provides the student with theoretical information necessary for the successful coaching of baseball as well as skill analysis, drill development, tactics, strategies, and other coaching techniques.

**PED 332 Coaching of Basketball. 1 cr.**

Provides the student with theoretical information necessary for the successful coaching of basketball as well as skill analysis, drill development, tactics, strategies, and other coaching techniques.

**PED 333 Coaching of Football. 1 cr.**

Provides the student with theoretical information necessary for the successful coaching of football as well as skill analysis, drill development, tactics, strategies, and other coaching techniques.

**PED 334 Coaching of Wrestling. 1 cr.**

Provides the student with theoretical information necessary for the successful coaching of wrestling as well as skill analysis, drill development, tactics, strategies, and other coaching techniques.

**PED 335 Coaching of Soccer. 1 cr.**

Provides the student with theoretical information necessary for the successful coaching of soccer as well as skill analysis, drill development, tactics, strategies, and other coaching techniques.

**PED 336 Coaching of Softball. 1 cr.**

Provides the student with theoretical information necessary for the successful coaching of softball as well as skill analysis, drill development, tactics, strategies, and other coaching techniques.

**PED 337 Coaching of Track and Field. 1 cr.**

Provides the student with theoretical information necessary for the successful coaching of track and field as well as skill analysis, drill development, tactics, strategies, and other coaching techniques.

**PED 338 Coaching of Volleyball. 1 cr.**

Provides the student with theoretical information necessary for the successful coaching of volleyball as well as skill analysis, drill development, tactics, strategies, and other coaching techniques.

**PED 339 Coaching of Cheerleading. 1 cr.**

Provides the student with theoretical information necessary for the successful coaching of cheerleading as well as skill analysis, drill development, tactics, strategies, and other coaching techniques.

**PED 425 Administrative Leadership in Athletics 3 cr.**

Discussion of topics related to leadership and administration throughout various athletic settings. Focus on budget, schedule, risk management and facilities management. Incorporate leadership theory, personality trait and philosophy in positive work environment. Comprehensive knowledge gained to lead an athletic team, department or organization.

**PED 490 Internship. 2-3 cr.**

By arrangement with discipline. Prereq: Consent of instructor.

**PED x91 Special Topics. .5-3cr.**

Special topics in physical education. May be repeated. Prereq: varies with topics.

**PED 199-499 Independent Study. 1 - 3 cr.**

By arrangement with instructor.

## PHYSICS (PHY)

Physics is a discipline emphasizing the study of natural science on both a fundamental and a practical level. The courses are designed to provide the student with a framework both by which to render intelligible the nature of creation, and by which to solve a broad range of technical problems. They are also designed to sharpen his or her ability to distinguish between observation and speculation within the natural sciences. Introductory courses are offered for students with majors both outside and inside the natural sciences. In addition, advanced courses are offered to equip students with the knowledge and technical skills necessary for academic or industrial work.

### Course of Study

A physics major consist of a minimum of 40 credits of physics courses and 20 credits of collateral mathematics courses:

1. Core: PHY 101, 201, 202 & 203\*.
2. At least 18 credits from the following advanced physics courses: PHY 301, 302, 303, 304\*, 401 & 402.
3. At least 6 credits of laboratory/practical courses from the following: PHY 215, 216, 313, 314, 315, 316\*\*, 317, 498.

4. Collateral courses: MAT 221, 222, 223, 224 and 333.

\* With departmental approval, PHY 304 may be substituted for PHY 203. In this case, additional 300+ level physics coursework must be added so as to maintain a minimum total of 40 credits of physics courses.

\*\* MAT 371 may be substituted for PHY 316.

A physics minor consist of a minimum of 22 credits of physics courses and 12 credits of collateral mathematics courses:

1. Core: PHY 101, 201, 202 & 203\*.
2. At least 6 credits from the remaining PHY courses.
3. Collateral courses: MAT 221, 222 & 223.

\* With departmental approval, PHY 304 may be substituted for PHY 203.

## Course Descriptions

### PHY 101 The Heavens and the Earth. 3 cr.

What is our place in the universe? This course provides an introduction to the science of astronomy. We will study a wide range of texts written by ancient thinkers such as Aristotle and Ptolemy, and more modern thinkers such as Copernicus, Kepler, Hubble, and Hawking. 3 lec.

### PHY 201 Space, Time and Motion. 5 cr.

What does it mean for an object to be truly in motion? In this course, we will engage in a careful study the science of dynamics, paying particular attention to the ideas of space and time. We will focus on selections from Galileo's Dialogues, Newton's Principia and Einstein's Relativity. Weekly laboratory sessions complement our classroom discussions. 4 lec. 3 hrs. lab. Prereq: MAT 221 or concurrent enrollment.

### PHY 202 Electricity, Magnetism and Light. 5 cr.

What is the nature of light? In this course, we will study a wide range of texts, beginning with the work of Gilbert, Coulomb, Ampere, Young and Newton, and culminating with the electromagnetic theory of light, as articulated by Faraday and Maxwell. Weekly laboratory sessions complement the classroom discussions. 4 lec. 3 hrs. lab. Prereq: MAT 222 or concurrent enrollment.

### PHY 203 Atoms, Nuclei and Matter. 3 cr.

The concept of an indivisible unit of matter arose thousands of years ago with the concept of the atom. Since then, our understanding of matter has undergone revolutionary changes, particularly in the 20th century. In this course we will focus on understanding the quantum theory of atoms, nuclei and matter, as developed by thinkers such as Rutherford, Planck, Bohr, Einstein, Schrödinger, and Heisenberg. 3 lec.

### PHY 215 Computerized Instrumentation. 3 cr.

The goal of this laboratory course is to train the student to combine skills in computer programming, elementary electronics and experimental physics so that he or she is able to design, build and run a low-cost computer-controlled scientific experiment from scratch. 1 lec. 6 hrs. lab.

### PHY 216 Machine Shop Techniques. 2 cr.

This course provides students with basic machine shop skills, including computer aided design and the operation of a computer controlled milling machine. 3 hrs. lab.

### PHY 301 Classical Mechanics. 3 cr.

Leibniz and Newton developed the method of calculus for the study of mechanics. Since their time, mechanics has become increasingly formalized, particularly with the work of Lagrange, Hamilton, Poincaré and Lorenz. In this course we will study various formal approaches to the study of mechanics. 3 lec.

### PHY 302 Electrodynamics. 3 cr.

The electromagnetic theory of light, introduced by Faraday and Maxwell, has proved very successful in understanding the nature of radiation and its interaction with matter. In this course, we will engage in a detailed study of Maxwell's equations, which form the basis for the classical theory of electromagnetic waves. 3 lec.

### PHY 303 Thermodynamics. 3 cr.

What is the nature of heat? And what is its effect on various types of substances? In this course we will engage in a systematic study of the science of thermodynamics. In particular, we will aim at a deeper understanding of concepts such as temperature, energy, and entropy, and of the most common phases of matter: solids, liquids and gasses. This course is cross-listed with CHE 341. 3 lec.

### PHY 304 Quantum mechanics. 3 cr.

In response to Albert Einstein's famous assertion that "God does not play dice," Niels Bohr responded that Einstein should "stop telling God what he can and cannot do." In this course we will study the puzzling, yet highly successful, quantum theory of matter. Topics will include Schrödinger's wave equation and the quantum theory of light, atoms, molecules and solids. This course is cross-listed with CHE 342. 3 lec.

### PHY 313 Thermodynamics Laboratory. 2 cr.

In this laboratory course, students will conduct a number of experiments illustrating thermodynamic principles. This course is cross-listed with CHE 348. 3 hrs. lab.

### PHY 314 Quantum Mechanics Laboratory. 2 cr.

In this laboratory course, students will conduct a number of experiments illustrating quantum mechanical principles. This course is cross-listed with CHE 349. 3 hrs. lab.

### PHY 315 Electronic Laboratory. 3 cr.

This is a laboratory course in analog and digital electronics. 1 lec. 6 hrs. lab.

### PHY 316 Computational Methods. 3 cr.

In this course, students will learn to employ computational methods so as to solve a variety of scientific problems. 1 lec. 6 hrs. lab.

### PHY 317 Instrumental Analysis. 4 cr.

A study of common instrumental techniques including spectroscopic, chromatographic, electrochemical, and other physical methods for the analysis of materials. This course is cross-listed with CHE 310. 2 lec., 6 hrs. lab

**PHY 401 Gasses. 3 cr.**

This is an advanced course in the statistical mechanics of large numbers of weakly interacting particles. Emphasis will be placed on Maxwell and Boltzmann's work on the kinetic theory of gasses. This course is cross-listed with CHE 440. 3 lec.

**PHY 402 Solids. 3 cr.**

This is an advanced course on the structural, vibrational and electronic properties of compounds and solids. This course is cross-listed with CHE 430. 3 lec.

**PHY 403 Liquids. 3 cr.**

This is an advanced course in the statics and dynamics of fluids. 3 lec.

**PHY 490 Internship. 1 - 3 cr.**

By arrangement with department and college internship coordinator. See college internship guidelines.

**PHY x91 Special Topics in Physics. 1 - 3 cr.**

This course is a seminar in a unique or contemporary field of physics. It may be repeated for different topics. Prereq: Instructor approval.

**PHY 498 Undergraduate Research. 1 - 3 cr.**

A research project coordinated by the department and arranged with a sponsoring faculty member

**PHY 199-499 Independent Study. 1 - 3 cr.**

This course allows students to pursue work beyond the level offered by existing courses. It may be repeated for additional credit. Prereq: Instructor approval.

## POLITICAL SCIENCE (POL)

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### Course Descriptions

**POL 100 Introduction to Government and Politics. 3 cr.**

This course is designed to give students a broad overview of the concepts of politics. It will draw on basic elements of political theory, comparative politics, international relations, and American government. The course will emphasize what it means to be a Christian citizen in a rapidly changing political environment.

**POL 200 American Government I - National Politics. 3 cr.**

A survey of the underlying principles, structure, and major institutions of American national government. The course will examine the exercise of political power at the national level by examining such topics as political behavior, federalism, separation of power, the Bill of Rights, and tribal government.

**POL 202 American Government II - State and Local Politics. 3 cr.**

A survey of the underlying principles, structure, and major institutions of American state and local government. State and local government and politics will be analyzed utilizing a comparative framework. Attention will be paid to metropolitan governance and special districts.

**POL 490 Internship. 1-3 cr.**

By arrangement with department and college internship coordinator.

See college internship guidelines.

**POL x91 Special Topics in Political Science. 3 cr.**

Special topics in Political Science. Prereq: varies with topic.

**POL 199-499 Independent Study. 1-3 cr.**

Advanced topics may be studied which are not normally included in the regular course offerings. By arrangement with the department.

## PSYCHOLOGY (PSY)

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Psychology is the scientific study of behavior and mental processes. The WLC psychology discipline recognizes the importance of advancing undergraduate psychology as a science in light of God's Word and is designed to prepare the student for lifelong learning, critical thinking, and God-pleasing service. Each course within the discipline promotes the undergraduate student's ability to think scientifically about behavior and mental processes and to judge psychological fact on the basis of validity and reliability of the empirical evidence and in accordance with God's Truth and authority.

### Course of Study

- A. A major in psychology consists of at least 36 credits in psychology as follows:
  1. Required Courses: PSY 101, 210, 260, 395, 411.
  2. Collateral Requirement: MAT 117.
  3. At least seven elective courses in psychology.
  
- B. A minor in psychology consists of at least 21 credits in psychology as follows:
  1. Required Courses: PSY 101 and 210.
  2. At least five elective courses in psychology.
  
- C. A teaching major in psychology consists of 36 credits as follows:
  1. Required Courses: PSY 101, 210, 250, 260, 395, 411, 470.
  2. Collateral Requirements: MAT 117.
  3. At least five elective courses.
  
- D. A teaching minor in psychology consists of at least 24 credits as follows:
  1. Required Courses: PSY 101, 210, 250, 260, 411, 470.
  2. Collateral Requirements: MAT 117.
  3. At least two elective courses.

### Course Descriptions

**PSY 101 Introduction to Psychology. 3 cr.**

This course introduces the science of psychology by surveying key fields such as human development, learning, memory, intelligence, motivation and emotions, personality, abnormality, social interactions, and ethics. Students explore foundations of psychology seen in

philosophy, theory, biology, and culture. They also investigate the many ways psychological research can be applied to every day life. Additionally, class discussion focuses on the relationship between psychology and Christian beliefs. Students are also introduced to the scientific writing style of the American Psychological Association (APA).

**PSY 120 Human Growth and Development. 3 cr.**

This course provides an introduction to the study of the physical, cognitive, and socio-emotional development of the individual from conception to old age. The course surveys the theory, concepts, and research in the field of human development. Additionally, class discussions focus on the relationship between psychology and Christian beliefs. Students are introduced to the scientific writing style of the American Psychological Association (APA).

**PSY 130: Psychology of Health & Adjustment. 3 cr.**

The course provides a Christ-centered study of the concepts, theories, principles, and applications that contribute to the intersection of health psychology and human adjustment within the context of the biopsychosocial model. Emphasis is placed on Christian application of these principles to situations that might occur during college life, during personal and social experiences, and at work or in one's career.

**PSY 210 Psychological Research Methods. 4 cr.**

This course introduces the principles of descriptive, correlational and quasi-experimental, as well as experimental research designs. Students are required to propose, conduct, and report a research study according to American Psychological Association (APA) ethical standards and requirements with particular emphasis on the Method section of the report. Prereq: PSY 101 with a grade of C or better.

**PSY 230 Child Abnormal Psychology. 3 cr.**

This course provides an overview of the nature and origin of cognitive, affective, and behavioral problems in children. It traces philosophical, biological, psychological, and cultural views of abnormalities which have contributed to science-based descriptions of current disorders. Influences on abnormalities, including biology, development, social factors, attachment, parenting, and temperament are investigated along with therapy, medication, and other ethical, science-based techniques methodologies that alleviate abnormalities. Critical thinking skills using Christian doctrine and scientific methodology are integrated to evaluate information. The course also focuses on applying scientific research and writing skills to develop special topics in this field. Prereq: PSY 101.

**PSY 240 Sport Psychology. 3 cr.**

This course in the scientific study of psychology emphasizes theory, principle applications, primary literature, and research within the field of psychology as it applies to sport and exercise settings. Specific areas that will be addressed include, but are not limited to: concentration, motivation, leadership, goal setting, assessment, emotions, and confidence. The students will also identify the relationship of these principles to Christian life. Prereq: PSY 101.

**PSY 250 Introduction to Learning and Memory. 3 cr.**

This course provides a historical survey of the psychological theories of learning and memory. The course reviews philosophical views of learning and applies those perspectives to more contemporary approaches to learning. Special emphasis is placed on behaviorism.

Cognitivism and constructivism are also addressed. Contemporary learning theory is discussed along with information processing theories and memory systems. Prereq: PSY 101 or PSY 120.

**PSY 260 Personality Theories. 3 cr.**

This course is an introduction to personality theory. Eight major schools of thought are considered, including 1) psychoanalytic, 2) neo-analytic and ego, 3) biological, 4) behaviorist and learning, 5) cognitive and social-cognitive, 6) trait and skill, 7) humanistic and existential, and 8) person-situation interactionist. The course includes particular emphasis on the purpose, problems, and application of personality theory to human behavior, and considers each theory from a Christian perspective. Prereq: PSY 101.

**PSY 285 Physiological Psychology 3 cr.**

The purpose of this course is to introduce students to the physiological basis of behavior. Topics of discussion will include the structure and function of the nervous system at both a cellular and system level, the physiological bases of the senses, learning and memory, addiction, and hormones and behavior. Upon completion of the course, students will have a solid foundation regarding the biological bases of behavior upon which to build in more advanced courses of study. Prereq: PSY 101. BIO 225 highly encouraged, but not required.

**PSY 300 Abnormal Psychology. 3 cr.**

This course provides a scientific study of psychological disorders and integrates principles of Christian doctrine to evaluate this area of psychology. Philosophical, theoretical, and historical foundations of abnormality are addressed along with definitions of particular disorders and contributing factors such as biology, stress, and social and psychological influences. The course also addresses therapy, medication, and other methods identified through research as effective measures in alleviating these disorders. A final aspect of this course focuses on applying scientific research and writing to develop professional skills for describing disorders and explore interest areas in abnormal psychology. Prereq: PSY 210.

**PSY 310 Psychological Counseling. 3 cr.**

This course provides a scientific study of psychological disorders and therapies in different populations while integrating principles of Christian doctrine. Philosophical, biological, psychological, and cultural foundations of abnormality are evaluated along with therapy, medication, and other methods identified through research as ethical, evidence-based techniques for alleviating these disorders. A final aspect of this course focuses on applying scientific research and writing skills to explore interest areas in counseling psychology. Prereq: PSY 210.

**PSY 321 Child Development. 3 cr.**

This course focuses on the scientific research and theory related to socio-emotional development of the infant and child including areas of the history of the child developmental theory, attachment, temperament, self, peers, friendship, and linguistic development. Special emphasis is placed on the psychological theories supporting child development research. Students are expected to read original readings and participate as well as reflect on numerous field activities observing children. Prereq: PSY 120 and PSY 210.

**PSY 324 Adult Development. 3 cr.**

This course provides an overview of adult psychological, physical



and emotional development from the ages of 21 to death. Special emphasis is placed on the aging process and gerontological research. Students are required to participate in field experiences designed to assist them in reflecting on the biological, psychological, social, and cultural influences on aging. Prereq: PSY 120 and PSY 210.

**PSY 350 Memory and Cognition. 3 cr.**

A systematic survey of the methods and research of cognitive psychology and memory processes. The course includes current research and theory in such topics as attention, working memory, long term memory, concept formulation, problem solving, and language. Prereq: PSY 210 and 250.

**PSY 375: Drugs & Society. 3 cr.**

This course provides introduces the basic issues surrounding substance use and abuse addressing both legal and illicit drugs. Grounded in Scripture, students are introduced to the theory and research related to the biopsychosocial perspective explaining substance use in contemporary society, including a historical perspective, drug metabolism, drug action/classification, legal issues, reasons for abuse, and drug abuse prevention strategies. Prereq: PSY 210.

**PSY 390 Social Psychology. 3 cr.**

This course provides an introduction to the field of social psychology which emphasizes how people think about, influence, and relate to one another in a social world. It surveys topics such as attitudes, persuasion, discrimination, aggression, altruism, and group influences. Focal points involve history, theory, scientific research and application of evidence-based knowledge for improving human conditions. Critical thinking, ethics, and Christian perspectives are also emphasized as students complete assignments using the American Psychological Association (APA) writing style. Prereq: PSY 210.

**PSY 395 History and Systems of Psychology. 3 cr.**

This course reviews world history and culture, philosophy, scientific knowledge, theology, and their influences on the development of the psychology field. Systems for investigating psychology and related areas such as perception, learning, neurobiology, social and developmental processes, motivation and personality are critically evaluated to allow synthesis of information, and the development of students' personal view of psychology. Written work involves the American Psychological Association (APA) writing style, and oral presentations involving multimedia technology. Prereq: PSY 210, completion of major application procedures, and junior standing or consent of instructor.

**PSY 400 Perspectives on Christian Counseling. 3 cr.**

This course is designed to give students an overview of the philosophies and theologies that contribute to and define existing Christian counseling ideologies. It also evaluates Christian counseling on the basis of Lutheran doctrine and the science of psychology. The application of Christianity in counseling will be observed in its history, its proponents, its opponents, its theology, and how all of these affect Lutheran Christians studying psychology. Finally, this course will provide examples of Christian counseling as it is carried out by Lutherans in real-life situations. Prereq: PSY 210 and PSY 310.

**PSY 411 Experimental Psychology. 4 cr.**

This is an advanced course in the use of the scientific method in psychological research with special emphasis on experimental design and related statistics. The course focuses on the formulation of hypotheses, use of appropriate research design, and methods of statistical analysis of data. Students are required to propose a research study and prepare a complete scientific report according to American Psychological Association requirements. Prereq: PSY 210 and MAT 117.

**PSY 430 Advanced Adolescent Development. 4 cr.**

This course provides a survey of the psychological theory and research in the area of adolescent development. This course focuses on the physical, psychological, cognitive, moral, and spiritual development of individuals between the ages of 10 and 21. Students are required to participate in field work and must run a research study designed to explore some aspect of adolescent development and report this study according to APA style. Prereq: PSY 120 and 411.

**PSY 470 Psychological Testing. 4 cr.**

This course introduces the nature of psychological measurement and principles of evaluation with special emphasis on test construction. The course also includes an analysis of commonly used psychological tests, the classification of tests, and standards of ethical conduct in using tests. Students are required to construct and empirically test a questionnaire or survey as well as critique a published test. Prereq: PSY 411.

**PSY 490 Internship. 1-3 cr.**

By arrangement with discipline. Prereq: Consent of instructor

**PSY x91 Selected Topics in Psychology. 1-3 cr.**

This is an advanced seminar on contemporary theoretical and research trends in selected areas of psychology. Topics to be announced. Prereq: PSY 210 and dependent upon course topic or consent of instructor

**PSY 498 Readings and Research. 1-3 cr.**

A project designed in conjunction with a department faculty advisor in basic psychological research on a topic of the student's choosing. Prereq: PSY 411 or consent of instructor

**PSY 199-499 Independent Study. 1-3 cr.**

By arrangement with instructor.

## SOCIOLOGY (SOC)

**SOC 101 Introduction to Sociology. 3 cr.**

An introduction to analysis of human behavior and group life. Major concepts and theories relating to culture, society, and social processes are covered. Community and institutional organizations are studied.

**SOC 220 Sociology of Race and Ethnicity. 3 cr.**

An analysis of the social and cultural aspects of race and ethnicity. Emphasis is on minority groups in the U.S. Concepts such as assimilation, social inequality, social conflict, and pluralism are examined.

**SOC 250 Sociology of Crime and Deviant Behavior. 3 cr.**

A sociological examination of crime and delinquency in the U.S. The course covers crime, victims, methods of control and their alternatives, treatment, prevention, and the criminal justice system.

**SOC x91 Special Topics in Sociology. 1-3 cr.**

An intensive study and discussion of selected topics in sociology. Possible topics include social class and inequality, marriage and the family, social problems and topics relating to criminal justice. May be repeated with change of topic. Prereq: varies with topic.

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## SPANISH (SPA)

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A liberal arts minor in Spanish greatly enhances career preparation in a wide variety of fields. Spanish is a valuable support tool in education, administration, all the health and social service fields, business, banking, and especially in service and product sales and marketing.

A teaching major in Spanish provides the essential skills and knowledge to satisfy the requirements of the Wisconsin Department of Public Instruction for a license to teach Spanish.

### Course of Study

A major in Spanish consists of at least 36 credits including:

1. Core courses: SPA 202, 250, 320, 330, 375, 495.
2. At least one of: SPA 312 or 313.
3. At least one of: SPA 340, 341, or 342.
4. At least one of: SPA 350 or 351.
5. At least 9 credits of electives from remaining courses above SPA 220.
6. Collateral Requirement: HIS 341 or 342.

A minor in Spanish consists of at least 24 credits including:

1. Core courses: SPA 202, 250, 320, 330, 375.
2. At least one of: SPA 312 or 313.
3. At least one of: SPA 340, 341, 342, 350, 351.
4. At least three credits from: SPA 220, 221 or any other 300 and 400 level spanish course.
5. Collateral Requirement: HIS 341 or 342.

Foreign Study/Experience: All students majoring in Spanish are required to have an approved foreign study/experience. Students seeking education certification must have their program approved by the Teacher Education Department as well as the Spanish Department.

Grade Point Average: To have a major or minor in Spanish, a student must have a minimum grade of C in each course individually and a minimum cumulative GPA of 2.50 in courses selected by the student to satisfy the major/minor. Students seeking Education certification are required to have a minimum cumulative GPA of 3.00.

Students who have been waived from taking SPA 202 due to placement test scores will receive credit for it towards a Spanish major or minor.

### Course Descriptions

**SPA 101 Elementary Spanish 1. 4 cr.**

Introduction to the Spanish language. Fundamentals of comprehension, speaking, reading, writing, and culture.

**SPA 102 Elementary Spanish 2. 4 cr.**

Continuation of SPA 101. Prereq: SPA 101 (grade of C or better), or by placement.

**SPA 201 Intermediate Spanish 1. 3 cr.**

Oral and written communication skills will continue to be developed and expanded. Readings emphasizing cultural topics will be introduced and discussed. Prereq: SPA 102 (grade of C or better), or by placement.

**SPA 202 Intermediate Spanish 2. 3 cr.**

Continuation of SPA 201. Prereq: SPA 201 (grade of C or better), or by placement.

**SPA 210 Beginning Spanish for Business. 3 cr.**

An introduction of Spanish terminology for business purposes. This course is designed for the student who is not seeking a minor or major, but who wishes to enhance their skills in the language with business applications. Prereq: SPA 202 (grade of C or better), or by placement.

**SPA 220 Beginning Spanish Conversation. 1 cr.**

Speaking skills will be improved by participating in guided conversations, presentations, and group discussions. The emphasis is on vocabulary acquisition and usage. Prereq: SPA 202 (grade of C or better), or by placement.

**SPA 221 Beginning Spanish Composition. 2 cr.**

Writing and reading skills will be improved through extensive opportunities for writing and correcting what has been written. Correct written grammar will be stressed. Prereq: SPA 202 (grade of C or better), or by placement.

**SPA 250 Intermediate Spanish Grammar. 3 cr.**

This course is designed to strengthen awareness of the system of agreement, to refine use of the tenses, and generally to increase the level of linguistic sophistication in the use of Spanish. Prereq: SPA 202 (grade of C or better), or by placement.

**SPA 312 Spanish Civilization. 3 cr.**

An in depth study of Spanish Peninsular culture through its history, art, philosophy and literature from Medieval times through the 21st Century. Prereq: SPA 250 (grade of C or better), or by placement.

**SPA 313 Latin American Civilization. 3 cr.**

An in depth study of Latin American culture through its history, art, philosophy and literature from Pre-Columbian times through the 21st Century. Prereq: SPA 250 (grade of C or better), or by placement.

**SPA 320 Advanced Spanish Composition. 3 cr.**

Intense review of Spanish grammatical structures, syntax, and idioms in order to improve speaking and writing skills. Prereq: SPA 220/221 or 250 (grade of C or better).

**SPA 330 Introduction to Literary Studies in Spanish. 3 cr.**

Literary terminology and methodology specific to Spanish literature is learned. Analysis of narrative, poetry, theater, and essays will be done. Prereq: SPA 220/221 or 250 (grade of C or better).

**SPA 340 Survey of Spanish Literature 1. 3 cr.**

Study of Spanish Literature from its epic beginnings through the 17th century, including the Cid, the Celestina, Cervantes, and Lope de Vega. Prereq: SPA 330 (grade of C or better).

**SPA 341 Survey of Spanish Literature 2. 3 cr.**

A study of representative works from 1750 to 1898. Included are works of Neoclassicism, Romanticism, Realism, and Naturalism. Prereq: SPA 330 (grade of C or better).

**SPA 342 Survey of Spanish Literature 3. 3 cr.**

Reading and discussion of selected works beginning with the Generation of '98 and including pre- and post-Civil War literature. Prereq: SPA 330 (grade of C or better).

**SPA 350 Survey of Latin-American Literature 1. 3 cr.**

Introduction to Latin American literature from its origins to the eighteenth century. Prereq: SPA 330 (grade of C or better).

**SPA 351 Survey of Latin-American Literature 2. 3 cr.**

Introduction to Latin American literature from the eighteenth through the twenty-first centuries. Prereq: SPA 330 (grade of C or better).

**SPA 361 Advanced Spanish for Business. 3 cr.**

Advanced business terminology, letter writing, telephone communication and cultural implications of conducting business in a Spanish speaking country. Prereq: One of SPA 221, 250 or 320 (grade of C or better).

**SPA 375 Conversation, Phonology, and Phonetics. 3 cr.**

Study of the Spanish sound system to improve spelling and pronunciation. Emphasis on understanding the distinct linguistic environments that affect how certain sounds are produced. Prereq: SPA 320.

**SPA 490 Internship. 1-3 cr.**

By arrangement with the Internship Coordinator, and the department.

**SPA x91 Seminar in Selected Topics. 3 cr.**

Focus on a major topic, figure, movement, or era. Presented in seminar format. Maybe repeated with a change in subtitle. Offerings in the past have included: Women's writings in the twentieth century, Film, 18th Century Novel, and Caribbean Theater. Prereq: SPA 320 and 330.

**SPA 495 Senior Thesis. 3 cr.**

A scholarly project on a theme of interest to the student. Crafted individually with the advisor with an end product in Spanish of a minimum 30-page essay. Prereq: Senior standing, permission of advisor.

**SPA 199-499 Independent Study. 1-3 cr.**

By arrangement with the department.

## **SPORT & EXERCISE SCIENCE (SPE)**

The Wisconsin Lutheran College Sport & Exercise Science major combines a robust interdisciplinary education in the health sciences and liberal arts with diverse hands-on experience in a wide range of laboratory, clinical, and field venues. Successful completion of this major prepares graduates for lives of servant leadership in a wide range of professions (personal training, cardiac rehabilitation, etc.).

### **Course of Study**

A major in Sport and Exercise Science consists of at least 43-44 credits: a core of 27-28 credits, 13 collateral credits, and 15 elective credits.

A. Core courses: BIO 202 or 203, 225, 255, 365, PED 315, SPE 325, 425, 490.

B. Collateral Requirements: CHE 101 or 161, MAT 117, PSY 101, and 120.

C. At least 15 credits from the following: BIO 240, 323, 355, 372, 455, COM 405, PSY 240, PED 152, 154, 330, SOC 101, SPE 350.

### **Course Descriptions**

**SPE 310 Motor Learning and Development. 3 cr.**

Consider the principles and theoretical perspectives of motor development and life span effects on human body systems. Observe, examine and assess human movement and environmental effects influencing movement through practical application. Prereq: BIO 225

**SPE 325 Exercise Physiology. 4 cr.**

A study of how normal physiological function (homeostasis) is altered, and subsequently restored, in response to various forms of stress in exercise and training. The course will cover human energy transfer, human energy expenditure, evaluation of energy-generating capacities, the cardiovascular system, and the musculoskeletal system. 3 lec, 2 hrs lab. Prereq: BIO 225 and 255.

**SPE 350 Fitness Assessment and Exercise Prescription 4 cr.**

Develop an objective and comprehensive approach to analyzing physical, cardiovascular and muscle fitness levels for individuals across the life span. Examine and design exercise plans and directives based on exercise frequency, intensity, duration, and specificity of training response to assist individuals to achieve desired fitness goals. 3 lec. 2 lab Prereq PED 216 & SPE 325

**SPE 425 Kinesiology and Biomechanics 4 cr.**

A study of human movement. The course will include a review and assessment of human movement, performance and function by applying the science of biomechanics, anatomy, physiology and motor learning. The course will also include the study of enhanced movement, function or performance in the areas of sports. 3 hr lecture, 2 hr lab Prereq: BIO 225 and 255.

**SPE 490 Internship. 1-3 cr.**

By arrangement with the Internship Coordinator, and the department.

**SPE x91 Special Topics. 3 cr.**

Special topics in Sport and Exercise Science. Prereq: varies with topic.

**SPE 199-499 Independent Study. 1-3 cr.**

By arrangement with the department.

## **THEATRE (THR)**

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The curriculum and activities of the Theatre Department are designed to explore, investigate and develop the creative process and cultural significance of story-telling in performance. We foster an integrated liberal arts approach distinguished by breadth in theatre study and a focus on analytical, critical, and creative thinking—especially with regard to the role of theatre in community and the application of theatre-related skills, knowledge and attitudes to many areas of life. The Major and Minor programs in theatre prepare students through a foundational understanding of the Lutheran doctrine of vocation that all labors are to be in service to one's neighbor. To that end, the theatre program endeavors to prepare Christ-centered professional artists, practitioners, managers and educators whose leadership and impact, we pray, will be significant today and tomorrow. The productions of the department offer numerous co- and extra-curricular opportunities for all students in the college.

### **Course of Study**

- A. A Theatre Major consists of at least 39 credits in theatre including:
1. Core courses: THR 104, 195, 201, 204, 210, 220, 231, 232, 233, 234, 295, 301, 302, 304, 315, 395, 404.
  2. At least 10 credits from remaining THR courses of which 3 credits can be from ENG 293, 321, 322 or 393.
- B. A Theatre Education Major consists of at least 39 credits including:
1. THR 101, 104, 195, 201, 204, 210, 220, 231, 232, 233, 234, 260, 301, 304, 315, 320, 430\*, EDU 393\*.
  2. At least 9 credits from remaining THR courses of which 3 credits can be from ENG 293, 321, 322 or 393.
- \* required but do not count toward major credit total.
- C. A theatre Minor consists of at least 24 credits.
1. Core Courses: THR 104, 195, 201, 204, 210, 220, 301, 304, 315
  2. At least 2 courses from the following: THR 231, 232, 233, 234.
  3. At least 5 credits from remaining THR courses.

### **Course Descriptions**

**THR 101 Introduction to Theatre. 3 cr.**

This course develops an appreciation for theatre through introduction to the various components and expressions of story in performance and an examination of topics including genre, style, structure, purpose and cultural context, as well as the roles of the collaborative artists responsible for a theatre production. Attendance of on- and

off-campus performances may be required. Practical application of theatre activity may also be required. Meets General Education Fine Arts Requirement.

**THR 104 Vocation in Theatre 1 1 cr.**

An introduction to the ways and means a Christian uses his/her intellect, abilities, and artistry in the fulfillment of vocation through theatre activity. Topics will include, but not be limited to theatre as an academic endeavor, and theatre in community and culture. Intended for theatre majors and minors.

**THR 195 Theatre Practicum 1. 1 cr.**

Credit is earned through significant involvement in an acting role or staff position for a WLC Theatre Department production and documentation of a professional process. Roles/positions are designated by faculty as approved practicum opportunities for a given production. Prerequisites: THR 210 for acting role, THR 220 for technical position, THR 315 for design position - may be concurrent; Students must have participated in at least one WLC theatre production prior to enrolling.

**THR 201 Script Analysis. 3 cr.**

A foundational course on the core processes involved in turning a drama (written script) into a performance. A variety of scripts will be examined utilizing critical, analytical, and creative methods for the purpose of developing a coherent, structured approach for work of artistic merit. Meets General Education Fine Arts Requirement.

**THR 204 Vocation in Theatre 2 1 cr.**

A continuation of THR 104, exploring and examining the ways and means a Christian uses his/her intellect, abilities, and artistry in the fulfillment of vocation through theatre activity—specifically focusing on the relationship between theatre and Christian living, theology, and post-modern culture. Prerequisite: THR 104.

**THR 210 Principles of Acting. 3 cr.**

This introductory course will sharpen basic skills necessary for all actors (concentration, imagination, observation, physical and vocal awareness, memorization, and risk) and will introduce Constantin Stanislavski's approach to character analysis and portrayal. Coursework will culminate in a public performance. Journal writing and outside reading will be required. Meets General Education Fine Arts Requirement.

**THR 214 The Physical Voice. 3 cr.**

This course develops fuller voices grounded in the idea that vocal production for the actor is a physical manifestation and the result of what the body is experiencing—bringing more depth to the actor's experience and performance. Prerequisite: THR 210

**THR 220 Stage Production and Operation 1 cr.**

A fundamental introduction to and survey of the procedural and technical operations of stage production. Topics include production organization and management, theatre architecture, stage equipment and technology, company structures and stage management. Studio format: 2 hours in class per week. Practical out-of-class crew work on current productions may be required.

**THR 231 Scenery and Props Studio 1 cr.**

A fundamental and functional introduction to the tools, materials,

and applicable skills used in scenery and props construction. Studio format: 2 hours in class per week. Practical out-of-class crew work on current productions may be required.

**THR 232 Lighting and Sound Studio 1 cr.**

A fundamental and functional introduction to the equipment, operation, and applicable skills used in stage lighting and sound. Studio format: 2 hours in class per week. Practical out-of-class crew work on current productions may be required.

**THR 233 Costume Studio 1 cr.**

A fundamental and functional introduction to the equipment, operation, and applicable skills used in crafting costumes. Studio format: 2 hours in class per week. Practical out-of-class crew work on current productions may be required.

**THR 234 Stage Makeup Studio 1 cr.**

A fundamental and functional introduction to the materials and applicable skills used in stage makeup. Studio format: 2 hours in class per week. A makeup kit is required for this course. Practical out-of-class crew work on current productions may be required.

**THR 260 Theatre Arts Management 3 cr.**

An introduction and overview of all aspects of management regarding theatre arts production with specific focus on management structures and organizational models, box office and front-of-house operations, budget management and cost control. Marketing, advertising, promotions and public relations as they are unique to theatre arts presentation will be addressed. Does Not Meet General Education Fine Arts Requirement.

**THR 295 Theatre Practicum 2. 1 cr.**

Credit is earned through significant involvement in an acting role or staff position for a WLC Theatre Department production and documentation of a professional process. Roles/positions are designated by faculty as approved practicum opportunities for a given production. It is recommended that this practicum be in a different production position than THR 195. Prerequisite: THR 195.

**THR 301 Theatre History. 3 cr.**

A survey of theatre history from its origins through the 19th Century, as well as an introduction to production dramaturgy. Meets General Education Fine Arts Requirement.

**THR 302 Topics in Theatre History/Literature. 3 cr.**

An in-depth study of theatre in a specific historical time period, dramatic genre or sub-genre, or production aspect that may directly correspond to a WLC Theatre Department production. Prerequisites determined by topic, THR 201 and/or THR 301.

**THR 304 Vocation in Theatre 3 1 cr.**

A culmination of THR 104 and 204, exploring and examining the ways and means a Christian uses his/her intellect, abilities, and artistry in the fulfillment of vocation through theatre activity—specifically broadening the conceptual viewpoint and developing a personal creed and manifesto. Prerequisites: THR 104 and THR 204.

**THR 305 Playwriting 3 cr.**

An exploration of the techniques and processes of developing an original script for performance. Topics will include the study of

existing scripts as well as the development of skills used in creating dramatic characters, writing effective dialogue and developing engaging plots. The course will culminate in the creation and possible presentation of a ten-minute play. Prerequisite: THR 201.

**THR 310 Acting in Realism 3 cr.**

A continued study of realistic acting, using Stanislavski's approach as a basis, but also exploring aspects of other acting methodologies. Focus will be on application of these various methods to specific scene-work from the Modern/Contemporary eras. Prerequisites: THR 201 and THR 210.

**THR 315 Concept and Collaboration 3 cr.**

Instruction and examination of the tools, processes and expressions that synthesizes all of the analytical work on a script into a concise, overarching structure to stimulate the imagination of collaborating production artists and audience members. Multiple projects and presentations focus on interpretation, creative process and visual presentation. Contemporary issues and trends in production design are explored. Prerequisite: THR 201.

**THR 320 Directing. 3 cr.**

An introduction to the basic principles, skills and methods of directing for the stage. Topics will include play selection, effective story-telling, collaboration, director-actor communication, blocking, stage composition/picturization, rehearsal and project management. May culminate in a public final production/project showcase. Prerequisites: THR 201, THR 210, THR 220, and THR 315.

**THR 340 Ensemble and Devising 3 cr.**

An exploration and examination of story development through the process of ensemble-devised original work. The study of representative companies will provide methodological approaches for student exercises and projects likely culminating in a public performance of a devised production. Prerequisites: THR 210 and THR 315.

**THR 350 Dramaturgy 3 cr.**

A study of the dramaturgical skills and processes of making connections between a given play and a larger social and cultural context toward the purpose of understanding and creating a unified artistic experience. Topics include dramaturgical research, pre-production work, rehearsal applications, production dramaturgy, audience engagement, and literary management. Prerequisite: THR 201 and THR 301.

**THR 395 Theatre Practicum 3. 1 cr.**

Credit is earned through significant involvement in an acting role or staff position for a WLC Theatre Department production and documentation of a professional process. Roles/positions are designated by faculty as approved practicum opportunities for a given production. If THR 195 and THR 295 were in the same position (i.e. acting) this practicum must be in a different production position. Prerequisite: THR 295

**THR 404 Senior Capstone in Theatre 3 cr.**

Students demonstrate their competence in three culminating components: (1.) students undertake and present a major project (approved by the faculty) which exhibits an appropriate synthesis of their course and production experiences as well as their vocational expectations; (2) students offer a professional presentation of their preparedness to enter a vocation in theatre (or related field) as a

Christian leader; and (3) students complete a comprehensive oral exam based on the theatre core curriculum and supplemental reading list. Faculty and guest respondents may be utilized. Prerequisite: Theatre major or minor with senior status.

**THR 410 Acting in Classical Theatre. 3 cr.**

A study of advanced script/text analysis and the physical and vocal requirements necessary for using verse and acting in classical works including, but not limited to Greek/Roman, Shakespeare, and Neo-Classical. Prerequisites: THR 201 and THR 210.

**THR 412 Acting on Camera. 3 cr.**

Students will learn the business and techniques for acting in film, television, commercials, industrial videos, and voice-over work. Procedures and techniques in preparing an on-camera resume, securing and working with agents and casting directors, and other aspects particular to the business of nontheatre acting will be included. Prerequisite: THR 210.

**THR 430 Methods of Teaching Theatre. 2 cr.**

A study of the special problems that face the teacher of theatre. Includes special attention to the development and criticism of theatre class assignments, the operation and organization of a school theatre program, and the selection and production of dramatic activities at the elementary and/or secondary levels in public/parochial, and/or curricular/extra-curricular settings. Prerequisite for Education Majors: Admission to Teacher Education and Senior Status or permission of Director of Teacher Education. Prerequisite for Non-Education Majors: EDU 221 and at least Junior Status.

**THR 431 Scene Design. 3 cr.**

Advanced study will focus on theatrical stage design and techniques including advanced script analysis, sketching, rendering, drafting and model-making. Opportunities for realized designs will be attempted with an emphasis on communication issues, visual presentation and portfolio development. Prerequisites: THR 220, THR 231 and THR 315.

**THR 432 Lighting Design. 3 cr.**

Advanced study will focus on stage lighting design and techniques including advanced script analysis, fixture plotting and paperwork, use of color and rendering. Opportunities for realized designs will be attempted with an emphasis on communication issues, visual presentation and portfolio development. Prerequisites: THR 220, THR 232 and THR 315.

**THR 433 Costume Design 3 cr.**

Advanced study will focus on costume design and techniques including advanced script analysis, draping and color. Opportunities for realized designs will be attempted with an emphasis on communication issues, visual presentation and portfolio development. Prerequisites: THR 220, THR 233 and THR 315.

**THR 490 Internship. 1-3 cr.**

By arrangement with department.

**THR x91 Topics in Theatre. 1-3 cr.**

Selected topics in theatre arts. Content varies and course may be repeated for different topics. Prerequisites determined by topic.

**THR 199-499 Independent Study. 1-3 cr.**

## THEOLOGY (THE)

Theology courses play a central role in the spiritual and academic growth of students. Students are encouraged to enroll in or audit a variety of theology courses. A major in theology at WLC is designed for the student who seeks to prepare for personal or professional ministry in the WELS. Surveys of Scripture, biblical studies, systematic theology, and practical theology courses are combined to provide a solid foundation for a lifetime of learning and Christian service. A student who chooses a theology major will generally be advised to seek an additional major in his or her bachelor program.

### Course of Study

Theology courses are categorized into four different areas:

1. Biblical Studies: THE 100, 105, 110, 120, 130, 301-310.
2. Practical Theology: THE 211; PHI 201,202.
3. Systematic Theology. THE 401, 402, 411, 412, 421, 431, 461
4. Historical Theology. THE 441, 461

- A. A major in theology consists of at least 36 credits. Students can choose from three different emphasis areas: broad-field, biblical studies, and historical theology.

Broad-field emphasis includes:

1. Practical Theology: At least one course from the following: THE 211, PHI 201, 202.
2. Biblical Studies: At least three courses from the following: THE 301, 304, 306, 308.
3. Systematic Theology: At least three courses from the following: THE 401, 402, 411, 412, 421, 461.
4. Historical Theology: At least one courses from the following: HIS 321 and THE 441, 461.
5. Electives: At least 12 credits from the following: THE 110, 120, 130, 302, 303, 305, 307, 309, 310, 391, 431, 491, 490, 499.  
Note: Only one course from THE 110, 120, and 130 may be applied to the major.
6. Capstone: THE 480.

Biblical studies emphasis includes:

1. Core courses: THE 301, 304, 306, 308.
2. Practical Theology: At least one course from the following: THE 211, PHI 201, 202.
3. Systematic Theology: At least three courses from the following: THE 401, 402, 411, 412, 421, 461.
4. Electives: At least 12 credits from the following: GRE 201, THE 110, 120, 130, 302, 303, 305, 307, 309, 310, 391.  
Note: Only one course from THE 110, 120, and 130 may be applied to the major.
5. Capstone: THE 480.

Students who select a biblical studies emphasis are encouraged also to choose Greek to fulfill the foreign language requirement.

Historical theology emphasis includes:

1. Core courses: HIS 321, THE 401, 402, 411, 421, 441.

2. Practical Theology: At least one course from the following: THE 211, PHI 201, 202.
3. Electives: At least 15 credits from the following: THE 110, 120, 130, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 391, 412, 431, 461, 490, 491, 499.  
Note: Only one course from THE 110, 120, and 130 may be applied to the major.
4. Capstone: THE 480.

To have a major in theology approved for graduation, a student must have a minimum cumulative GPA of 2.50 in courses selected by the student to satisfy the major.

Consistent with their courses of study, students at WLC are encouraged to include a minor in theology when possible. A minor in theology will provide a student the opportunity to grow in faith and to develop Christian values, a sense of purpose, and a consistently biblical view of life.

- B. A minor in theology consists of at least 21 credits in theology, 15 of which must be 300- and 400-level courses, including:
1. Biblical Studies - Old Testament: One course from the following: THE 301-305.
  2. Biblical Studies - New Testament: One course from the following: THE 306-310.
  3. Practical Theology: One course from the following: THE 211, 412, PHI 201, 202.
  4. Systematic Theology: One course from the following: THE 401, 402, 411, 421, 431.
  5. Historical Theology: One of HIS 321, THE 441, and 461.
  6. Electives: At least 6 credits from any other THE 100-, 300-, or 400-level course or HIS 321. Note: Only one course from THE 101, 102, and 111 may be applied to the minor.

A cumulative GPA of 2.5 is required in courses to satisfy the minor requirements.

General degree requirements: 12 credits in theology are required to receive a degree from WLC. For specific requirements, please refer to page 52 of this catalog.

## Course Descriptions

### **THE 100 Introduction to Christianity. 3 cr.**

An introduction to the chief teachings of Christianity. (Admission by placement).

### **THE 105 Introduction to Scripture. 3 cr.**

An introduction to Christian theology in the confessional Lutheran tradition which provides a working knowledge of the themes, history, key figures, and salvation story in the Old and New Testaments, as well as the basic teachings of the Christian faith and a brief overview of the history of the Christian church. (Admission by placement).

### **THE 110 Introduction to Theology. 3 cr.**

A study of the basic principles of Christian Theology in the confessional Lutheran tradition, including surveys of biblical, historical, systematic, and applied Theology. (Admission by placement).

### **THE 120 The Old Testament. 3 cr.**

A study of the history of God's people before the time of Christ by means of a thorough investigation of the historical books of the Old Testament, together with an introductory overview of other types of Old Testament literature.

### **THE 130 The New Testament. 3 cr.**

A study of the life and work of Jesus Christ as well as the development of the early New Testament church. Representative readings in the Gospels, the New Testament letters and the Revelation provide a framework for understanding God's New Testament message.

### **THE 211 Christian Faith and Life. 3 cr.**

A biblical study of the Christian's relationship with God, self, and others, with a particular focus on the ministry and fellowship of Christians gathered to be Christ's church. Biblical leadership, spiritual gifts, courtship and marriage, 21st century parish life and bioethics are the thematic emphases.

### **THE 301 The Book of Genesis. 3 cr.**

An in-depth study of the first book of the Bible as a foundation for Old Testament history and biblical theology. Primary emphasis on God's saving activity on behalf of the primeval human race. Patriarchal personalities will be examined, theological themes explored, and comparative ancient history and culture discussed.

### **THE 302 History of Israel. 3 cr.**

A study of the historical books of the Old Testament, with special attention to the formation of the nation of Israel. Major Old Testament themes will be explored and examined, particularly the development of Israel's Messianic expectations.

### **THE 303 Old Testament Poetry and Wisdom Literature. 3 cr.**

A study of Job, Psalms, Proverbs, Ecclesiastes, and the Song of Songs. Focus on the form of Hebrew poetry, its meaning and usage among God's Old Testament people, and its continued value for God's New Testament people.

### **THE 304 Old Testament Prophets. 3 cr.**

A study of the major and minor prophets of the Old Testament, with special emphasis on the meaning of prophecy among God's Old Testament people, the fulfillment of prophecy in Jesus Christ, and the application of prophetic truths for church and society.

### **THE 305 The Literature of the Intertestamental Period. 3 cr.**

Selected readings in non-canonical Jewish literature during the so-called "silent years" between the end of the Old Testament and the birth of Jesus Christ. Attention will be given to global history during this period, the development of first century Judaism, and Messianic expectations in Israel up to the time of Christ.

### **THE 306 The Life of Christ. 3 cr.**

A study of the birth, ministry, suffering, death, resurrection and exaltation of our Lord as revealed in the Gospels. Special attention given to current critical theories of the Gospel's origins, detailed study of Jesus' teaching, parables, miracles, and Passion history, together with an evaluation of contemporary estimates of the personality and significance of Jesus.

**THE 307 Romans. 3 cr.**

An in-depth study of Paul's epistle to the Romans, focusing thematic emphasis on sin and grace in the life of the Christian, justification by faith, and Christian liberty.

**THE 308 Pauline Epistles. 3 cr.**

The historical development, doctrinal teachings, and practical application contained in Paul's letters to the Corinthians, Galatians, Thessalonians as well as the prison epistles (Ephesians, Philippians, Colossians, Philemon).

**THE 309 The Pastoral and Catholic Epistles. 3 cr.**

The historical development, doctrinal truths, and practical applications contained in the pastoral epistles (1 and 2 Timothy, Titus) and the catholic epistles (Hebrews, James, 1 and 2 Peter, 1, 2, and 3 John, Jude).

**THE 310 Apocalyptic Literature. 3 cr.**

A study of the apocalyptic portions of Ezekiel, Daniel, and selected sections of non-canonical apocalyptic literature. Primary emphasis on the Revelation to John.

**THE 401 Basic Teachings of the Bible 1. 3 cr.**

A study of those truths which the Bible, as the divinely inspired source of doctrine, presents concerning the Holy Scriptures, God, creation, providence, angels, man, law, sin, and salvation by grace.

**THE 402 Basic Teachings of the Bible 2. 3 cr.**

A continuation of THE 401, treating salvation by grace, sanctification, the means of grace, the Church, the ministry of the church, church fellowship, marriage, church and state, and the end of the world.

**THE 411 Lutheran Confessions. 3 cr.**

A study of the origin, content, and significance of the nine confessional writings of the Lutheran Church as contained in the Book of Concord. Emphasis on the Augsburg Confession and the Apology.

**THE 412 Theology of Christian Worship. 3 cr.**

An examination of the theology and practice of worship in the light of the Lutheran Confessions and history of Christian worship. Prereq.: THE100, THE105, or THE110.

**THE 421 Religion in America. 3 cr.**

An examination of the major Christian denominations, religious movements and non-Christian cults in the United States. Subject material will be studied for its historical development, distinctive doctrinal characteristics, and impact on American history and culture. Contemporary religious issues will be analyzed and evaluated from a confessional Lutheran perspective.

**THE 431 Introduction to World Religions. 3 cr.**

Historical background on the life and teachings of the founders, major beliefs and ritual practices of the major world religions, as well as critical religious and ethical issues facing each religious system at the present. Material will be analyzed and evaluated from a confessional Lutheran perspective.

**THE 441 History of Christianity. 3 cr.**

A survey of the development of Christianity from its origins to the present. focusing on the response of Christianity to the internal and

external challenges, and the influence of the church in the world. Prereq: sophomore standing

**THE 442 History of the Reformation 3 cr.**

A study of the Conservative, Radical, and Catholic Reformations and their impact on European society, with special concentration on Luther and other major figures.

**THE 450 Archaeology and the Biblical World. 3 cr.**

An introduction to the terminology, methodology, extent and outcomes of modern Middle Eastern archaeology. The course will survey the significance as well as the limitations of archaeology for providing source material for the reconstruction of the history, sociopolitical structures and religious thought of the biblical world. Does not fulfill 400-level degree requirement.

**THE 461 Thought and Life of Martin Luther 3 cr.**

A seminar study of the life and major theological writings of Martin Luther. Special emphasis will be given to Luther's historical-theological context and formation and to his major Reformation writings.

**THE 480 Theology Colloquium. 3 cr.**

This capstone course provides theology majors with an opportunity to reflect on their theological training by conducting research on a specific topic in the discipline of theology under the supervision of their major advisor. Students will summarize their research in the form of a written thesis, and will present and defend the thesis publicly.

**THE 490 Theology Internship. 1-3 cr.**

By arrangement with department.

**THE x91 Selected Topics in Theology. 3 cr.**

Course topics from biblical languages and literature, specific eras and developments in church history; historical surveys of doctrine or of confessing communities (denominations); etc. Can be applied to GENEDS depending upon topic. Prereq: varies by topic.

**THE 199-499 Independent Study. 1-3 cr.**

By arrangement with instructor.



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