

EPC 30-Day Clock Memo

TO: All Faculty
FROM: Educational Policies Committee
SUBJECT: Notice of Curriculum Changes
DATE: March 1, 2022

The 30-day review period begins March 1, 2022 and ends March 30, 2022

This notice of Curriculum Changes is published as required by the EPC Manual, which is located in the Faculty Handbook. The following paragraph may be found in Section III, Part VI, Section 3, "Procedures Governing Revision of Curriculum and Degree Requirements":

F: Faculty members must submit objections to proposals in writing to the Chair of EPC via facgov@plu.edu within 30 days from the date listed on the 30-day Notice of Curriculum Changes distributed by the EPC. Objections received within this 30-day period will suspend approval, pending resolution of the objections. In the event a dispute cannot be resolved, the EPC will make its recommendation to the faculty for action at the next regular faculty meeting.

Complete copies of the proposals may be obtained from the Provost's Office or from Matt Smith, Chair of the Educational Policies Committee for the 2021-22 academic year. In addition, some proposals may be found online in the EPC section of the Office of the Provost Sakai site, to which all PLU faculty should have access.

Curriculum Changes for Review – Summary

- **Biology** - change catalog description
- **Music** – change catalog description; add permanent non-GedEd course; change major and concentration requirement; revise curriculum
- **Nursing** – change catalog description; revise curriculum
- **Political Science** – create new minor*
- **Core Curriculum Committee** – reduce GenEd PE Requirement (including a change in the prefix); create assessable learning outcomes for the GenEd elements

*Type 3 proposal requiring a vote at Faculty Assembly

Curriculum Changes for Information Only – Summary

- **Chemistry** – catalog correction
- **STEM Education** – catalog correction

Curriculum Changes for Review

Deletions are indicated by ~~blue strikethrough~~ | Additions are indicated in **blue bold**
For conciseness, courses and catalog language sections that are not being changed, are not listed.

BIOLOGY

Fall 2022

Type 2 – change catalog description

Courses

BIOL 205 : Human Anatomy and Physiology I - NS, SM

The first half of a two-course sequence. **Students are introduced to human form and function and in particular, to the integration and connections between the cellular function and the synergetic functions of the body's organ systems.** Topics include ~~matter~~, **chemistry, cellular biology** ~~cells~~, tissues, **the integument**, and the anatomy and physiology of four systems: skeletal, muscular, nervous, and endocrine. Laboratory includes ~~cat dissection~~ **anatomical structure identification on preserved human cadavers, dissection of preserved organs**, and experiments in ~~muscle~~ physiology **and reflexes**. Not intended for biology majors. Prerequisite: PLU Math placement in MATH 140 or higher; or completion of MATH 115 with a C or higher. (4)

BIOL 206 : Human Anatomy and Physiology II - NS, SM

The second half of a two-course sequence. **The integration and connections between the cellular function and the synergetic functions of the body's organ systems is further expanded.** Topics include metabolism, temperature regulation, development, inheritance, and the anatomy and physiology of five systems: circulatory, respiratory, digestive, excretory, and reproductive. Laboratory includes cat **and preserved organ** dissection, **anatomical structure identification on human cadavers**, physiology experiments, and study of developing organisms. Not intended for biology majors. Prerequisite: BIOL 205 with a C- or better. (4)

Type 2 – change catalog description; add permanent non-GedEd course; change major and concentration requirement; revise curriculum

Catalog

Music Major Degrees

General Requirements

- **Entrance Audition:**

To be admitted to a music major program, prospective students must audition for the music faculty.

- **Declaration of Major:**

Students interested in majoring in music should declare a music major during their first semester of enrollment in the program. They will be assigned a music faculty advisor who will assure that the student receives help in exploring the various majors and in scheduling music study in the most efficient and economical manner. Majors can always be changed later.

- **Ensemble Requirement:**

Music majors are required to participate every semester in one of the music ensembles specified in their major. (Exception: semesters involving study away and/or student teaching.)

- **Keyboard Proficiency:**

Basic keyboard skills are required in all music majors (B.M., B.M.E., B.M.A., B.A.). For students pursuing the B.A. degree, attainment of adequate keyboard skills is determined by successful completion of MUSI 152: Keyboard Musicianship II, with a grade of C or better. Students in all other programs must complete MUSI 251: Keyboard Musicianship III, with a grade of C or better and/or successfully pass the Keyboarding Proficiency Assessment. Students who do not pass the Keyboarding Proficiency Assessment by the end of their fifth semester (fall of junior year) may not be permitted to continue in the B.M., B.M.E., or B.M.A. degree.

- **Language Requirement:**

Vocal performance majors are required to take at least one year of language study in French.

- **Music Electives:**

Unless specified in the degree program, music electives must be at the 300-level or higher.

- **Grades and Grade Point Policy:**

Only grades of C or higher in music courses may be counted toward the major. Courses in which the student receives lower than a C must be repeated, unless the department authorizes substitute course work. Majors must maintain a 2.50 cumulative grade point average in academic music courses (private lessons and ensembles excluded) to remain in the program ([see department handbook](#)).

- **Music Major Assessment:**

Students pursuing Bachelor of Music (B.M.), Bachelor of Music Education (B.M.E.), Bachelor of Musical Arts (B.M.A.) or Bachelor of Arts in Music (B.A.) degrees will have their progress and potential assessed at the end of the first, sophomore, junior and senior years. Assessments are made by the music faculty via progress reviews, juries and public presentations. Outcomes are pass/fail; students who fail an assessment will not be allowed to continue in the music program ([see department handbook](#)).

Bachelor of Arts (B.A.) Degree

Major in Music

Maximum of 44 semester hours in music, plus cognate

- Music Core: (27)
- Ensembles (~~4~~ 6)
 - Choose from: MUSI 360-383 (~~4~~)
- Applied Lessons (5 6)
 - Choose from: MUSI 201-219, 401-419
- Capstone Sequence (~~4~~ 2)
 - ~~MUSI 398: Keystone: Introduction to Music Research (2)~~
 - MUSI 499: Capstone Senior Project (~~fall/spring~~ **two semesters**) (1, 1)
- Electives (~~4~~ 3)
 - Choose any MUSI 300-499~~8~~ not already used in the major

Also required for the B.A. degree are:

- Meet College of Arts and Sciences Language Requirement (Option I, II) (one year of language)
- Take a non-music arts elective course in visual arts, theatre or dance.
- Cognate: An academic minor or second major outside of music.

Bachelor of Music Education (B.M.E.) Degree

The music education program is demanding of students' time and energies. Successful continuation in the program is predicated on meeting the program requirements by the end of the Fall Semester of the sophomore year. Transfer students should meet the requirements by Fall Semester of their first year at PLU. Program requirements are listed below:

- 2.50 cumulative G.P.A.
- PSYC 101 ~~with a grade of C+ or better~~
- ~~WRIT 101 (or equivalent) with a grade of C or better~~
- Two semesters of keyboarding (from MUSI 151/152) or successful completion of the Keyboard Proficiency Assessment
- MUSI 240 with a grade of B or better; this course will include the preparation of documents required for application to the B.M.E. program:
 - personal statement describing why you wish to become a music teacher
 - recommendation from a person who knows of your work with children/students
 - completed evaluation forms from studio teacher and ensemble director

Major in Music

87 semester hours in music; total 104 semester hours

First-Year, sophomore, junior and senior assessments required.

- Bachelor of Music Education: K-12 Choral
- Bachelor of Music Education: K-12 Instrumental (Band)
- Bachelor of Music Education: K-12 Instrumental (Orchestra)

Music Education Core

~~44~~ **12** semester hours

All B.M.E. degrees include the following music education core courses:

- MUSI 240: Introduction to Music Education (3)
- MUSI 340: Managing the Classroom and Curriculum (3)
- MUSI 345: Conducting I (1)
- MUSI 346: Conducting II (1)
- ~~MUSI 348: Practicum in Music Education (1)~~
- **MUSI 464: Practicum in Music Education I (1)**
- **MUSI 465: Practicum in Music Education II (1)**
- MUSI 469: Student Teaching Seminar (2)

Department of Education Sequence

17 semester hours

In addition to the music courses listed, all music education majors are required to take the following courses in the Department of Education.

~~The WEST-E exam in the appropriate area of concentration is taken during the senior year and must be passed prior to student teaching.~~

- EDUC 391: Foundations of Learning (3)
- EPSY 361: Psychology for Teaching (3)
- EDUC 320: Issues in Child Abuse and Neglect (1)
- EDUC 468: Student Teaching – Secondary (10)

The WEST-E exam in the appropriate area of concentration is taken during the senior year and must be passed prior to student teaching.

Application for admission to the Department of Education requires completion of WRIT 101 (or equivalent) and PSYC 101, each of which also satisfies an element in the General Education Program required of all students.

K-12 Choral

- Music Core (33)
- Ensembles (8)
 - Choose from: MUSI 360-363 (1 each semester)
- Applied Lessons (16)
 - Choose from: MUSI 204 and 404 (14)

- MUSI 499: Capstone: Senior Project (senior recital) (2)
- Music Education Core (~~11~~ 12)
- Concentration (~~19~~ 18): Choose Secondary or Elementary focus
 - Secondary Focus (~~19~~ 18)
 - MUSI 355: Diction I (1)
 - MUSI 356: Diction II (1)
 - MUSI 421: Functional Piano for the Professional Musician (2)
 - ~~MUSI 440: Introduction to General Music Methods (2)~~
 - ~~MUSI 443: Methods of Secondary Choral Music (2)~~
 - ~~MUSI 444: Materials of Secondary Choral Music (2)~~
 - MUSI 445: Conducting III (1)
 - ~~MUSI 446: Conducting IV (1)~~
 - MUSI 453: Vocal Pedagogy (2)
 - **MUSI 460: Elementary Music Methods (3)**
 - **MUSI 462: Choral Repertoire and Rehearsal (3)**
 - Choose five credits from the following:
 - MUSI 241: String Lab I (1) or MUSI 242: String Lab II (1)
 - MUSI 243: Woodwind Lab I (1) or MUSI 244: Woodwind Lab II (1)
 - MUSI 245: Brass Lab I (1) or MUSI 246: Brass Lab II (1)
 - MUSI 247: Percussion Lab (1)
 - MUSI 321: Guitar Lab (1)
 - MUSI 325: Class Composition I (2)
 - MUSI 326: Class Composition II (2)
 - ~~MUSI 441: Advanced Elementary Music Methods (2)~~
 - MUSI 451: Piano Pedagogy (2)
 - Elementary Focus (~~19~~ 18)
 - MUSI 247: Percussion Lab I (1)
 - MUSI 321: Guitar Lab (1)
 - MUSI 421: Functional Piano for the Professional Musician (2)
 - ~~MUSI 440: Introduction to General Music Methods (2)~~
 - ~~MUSI 441: Advanced Elementary Music Methods (2)~~
 - ~~MUSI 443: Methods of Secondary Choral Music (2)~~
 - **MUSI 460: Elementary Music Methods (3)**
 - **MUSI 462: Choral Repertoire and Rehearsal (3)**
 - DANC 301: Dance in World Cultures (4)
 - Choose ~~five~~ four credits from the following:
 - DANC 252: ~~Contemporary I~~ **Beginning/Intermediate Contemporary** (2)
 - DANC 255: **Beginning/Intermediate** Hip Hop (~~4~~ 2)
 - MUSI 241 : String Lab I (1) or MUSI 242: String Lab II (1)

- MUSI 325: Class Composition I (2)
- MUSI 326: Class Composition II (2)
- ~~MUSI 444: Materials of Secondary Choral Music (2)~~
- MUSI 445: Conducting III (1)
- ~~MUSI 446: Conducting IV (1)~~
- MUSI 451: Piano Pedagogy (2)
- MUSI 453: Vocal Pedagogy (2)

K-12 Instrumental (Band Emphasis)

- Music Core (33)
- Ensembles (8)
 - Choose from large ensemble: MUSI 370-371, 380 (8)
- Applied Lessons (16)
 - Choose from: MUSI 202-219, 402-419
 - MUSI 499: Capstone: Senior Project (recital) (2)
- Music Education Core (~~11~~ **12**)
- Concentration (~~19~~ **18**): Choose Secondary or Elementary Focus
 - Secondary Focus (~~19~~ **18**):
 - MUSI 241: String Lab I (1) or MUSI 242: String Lab II (1)
 - Lab Electives – Choose 4 semester hours from:
 - MUSI 243/244: Woodwind Lab I, II (1,1)
 - MUSI 245/246: Brass Lab I, II (1,1)
 - MUSI 247: Percussion Lab (1)
 - ~~MUSI 440: Introduction to General Music Methods (2)~~
 - MUSI 445: Conducting III (1)
 - ~~MUSI 446: Conducting IV (1)~~
 - ~~MUSI 447: Methods for School Band Music (2)~~
 - ~~MUSI 448: Materials for School Band Music (2)~~
 - **MUSI 460: Elementary Music Methods (3)**
 - **MUSI 461: Band Repertoire and Rehearsal (3)**
 - Choose six credits from the following:
 - MUSI 321: Guitar Lab (1)
 - MUSI 325: Class Composition I (2)
 - MUSI 326: Class Composition II (2)
 - MUSI 360-363: Choral Ensemble (1, repeatable for credit)
 - MUSI 381: Chamber Ensemble (1, repeatable for credit)
 - MUSI 421: Functional Piano for the Professional Musician (2)
 - ~~MUSI 441: Advanced Elementary Music Methods~~

- Elementary Focus (~~19~~ 18)
 - MUSI 241: String Lab I (1) or MUSI 242: String Lab II (1)
 - Lab Electives – Choose 4 semester hours from:
 - MUSI 243/244: Woodwind Lab I, II (1,1)
 - MUSI 245/246: Brass Lab I, II (1,1)
 - MUSI 247: Percussion Lab (1)
 - MUSI 321: Guitar Lab (1)
 - ~~■ MUSI 440: Introduction to General Music Methods (2)~~
 - ~~■ MUSI 441: Advanced Elementary Music Methods (2)~~
 - ~~■ MUSI 447: Methods for School Band Music (2)~~
 - **MUSI 460: Elementary Music Methods (3)**
 - **MUSI 461: Band Repertoire and Rehearsal (3)**
 - DANC 301: Dance in World Cultures (4)
 - Choose ~~three~~ two credits from the following:
 - DANC 252: **Beginning/Intermediate** Contemporary I (2)
 - DANC 255: **Beginning/Intermediate** Hip Hop (~~2~~ 4)
 - MUSI 325: Class Composition I (2)
 - MUSI 326: Class Composition II (2)
 - MUSI 360-363: Choral Ensemble (1, repeatable for credit)
 - MUSI 381: Chamber Ensemble (1, repeatable for credit)
 - MUSI 445: Conducting III (1)
 - ~~■ MUSI 446: Conducting IV (1)~~
 - ~~■ MUSI 448: Materials for School Band Music (2)~~

K-12 Instrumental (Orchestra Emphasis)

- Music Core (33)
- Ensembles (8)
 - Choose from large ensemble: MUSI 370-371, 380 (8)
- Applied Lessons (16)
 - Choose from: MUSI 202-219, 402-419
 - MUSI 499: Capstone: Senior Project (recital) (2)
- Music Education Core (~~14~~ 12)
- Concentration (~~19~~ 18): Choose Secondary or Elementary Focus
 - Secondary Focus (~~19~~ 18)
 - MUSI 241/242: String Lab I, II (1,1)
 - MUSI 243: Woodwind Lab I (1) or MUSI 244: Woodwind Lab II (1)
 - MUSI 245: Brass Lab I (1) or MUSI 246: Brass Lab II (1)
 - MUSI 247: Percussion Lab (1)
 - ~~■ MUSI 440: Introduction to General Music Methods (2)~~

- MUSI 445: Conducting III (1)
- ~~MUSI 446: Conducting IV (1)~~
- ~~MUSI 455: String Pedagogy (2)~~
- ~~MUSI 456: Methods and Materials for School Strings (2)~~
- **MUSI 460: Elementary Music Methods (3)**
- **MUSI 463: Orchestral Repertoire and Rehearsal (3)**
- Choose six credits from the following:
 - MUSI 321: Guitar Lab (1)
 - MUSI 325: Class Composition I (2)
 - MUSI 326: Class Composition II (2)
 - MUSI 360-363: Choral Ensemble (1, repeatable for credit)
 - MUSI 381: Chamber Ensemble (1, repeatable for credit)
 - MUSI 421: Functional Piano for the Professional Musician (2)
 - ~~MUSI 441: Advanced Elementary Music Methods (2)~~
- Elementary Focus (~~19~~ 18)
 - MUSI 241/242: String Lab I, II (1,1)
 - MUSI 243: Woodwind Lab I (1) or MUSI 244: Woodwind Lab II (1)
 - MUSI 245: Brass Lab I (1) or MUSI 246: Brass Lab II (1)
 - MUSI 247: Percussion Lab (1)
 - MUSI 321: Guitar Lab (1)
 - ~~MUSI 440: Introduction to General Music Methods (2)~~
 - ~~MUSI 441: Advanced Elementary Music Methods (2)~~
 - ~~MUSI 455: String Pedagogy (2)~~
 - **MUSI 460: Elementary Music Methods (3)**
 - **MUSI 463: Orchestral Repertoire and Rehearsal (3)**
 - DANC 301: Dance in World Cultures (4)
 - Choose ~~three~~ two credits from the following:
 - DANC 252: **Beginning/Intermediate** Contemporary (2)
 - DANC 255: **Beginning/Intermediate** Hip Hop (~~2~~ 4)
 - MUSI 325: Class Composition I (2)
 - MUSI 326: Class Composition II (2)
 - MUSI 360-363: Choral Ensemble (1, repeatable for credit)
 - MUSI 381: Chamber Ensemble (1, repeatable for credit)
 - MUSI 445: Conducting III (1)
 - ~~MUSI 446: Conducting IV (1)~~

- ~~MUSI 456: Methods and Materials for School Strings (2)~~

Bachelor of Musical Arts (B.M.A.) Degree

Major in Music

62 semester hours, plus cognate

- Music Core (33)
- Ensembles (8)
 - Choose from: MUSI 360-383 (one each semester)
- Applied Lessons (8)
 - Choose from: MUSI 201-219, 401-419 (8)
- Conducting (~~4~~ **2**)
 - MUSI 345: Conducting I (1)
 - **MUSI 346: Conducting II (1)**
- Capstone Sequence
 - ~~MUSI 398: Keystone: Introduction to Music Research (2)~~
 - MUSI 499: Capstone Senior Project (~~fall/spring two semesters~~) (1,1)
- ~~J-Term One Required~~
 - ~~MUSI 390/391: Intensive Performance Study (4)~~
- Electives (~~4~~ **9**)
 - Choose any MUSI 300-499 ~~not~~ already used in the major
- Cognate: An academic minor or second major outside of music. First-year, sophomore, junior and senior assessments required.

Bachelor of Music (B.M.) Degree

Major in Music

84-88 semester hours

- First-year, sophomore, junior and senior assessments required.
- For vocal performance: language study required.
- Applied Lessons are to be taken in consecutive Fall/Spring Semesters; continuous non-jazz study throughout the program required.

Concentrations

Composition

84 semester hours

- Music Core (33)
- Ensembles (10)
 - MUSI 360-383 (one each semester, 8)
 - MUSI 381: Chamber Ensemble (world music focus) (2)
- Applied Lessons (8)
 - Choose from: MUSI 201-219, 401-419 (8)
- Concentration Module (26)
 - MUSI 325: **Class** Composition I (2)
 - MUSI 326: **Class** Composition II (2)
 - MUSI 327: **Classical Music** Composition (4)
 - **MUSI 329: Popular Songwriting and Media Music (4)**
 - **Composition Study, selected from the following (8)**
 - MUSI 327: **Classical Music** Composition
 - ~~MUSI 328: Electronic Media (2)~~
 - **MUSI 329: Popular Songwriting and Media Music**
 - MUSI 345: Conducting I (1)
 - MUSI 346: Conducting II (1)
 - MUSI 499: Capstone: Senior Project (4)
- Music Electives (7)
 - Choose any MUSI 300-499 ~~98~~ not already used in the major

Instrumental (Performance)

84 semester hours

- Music Core (33)
- Ensembles (8) (1 each semester)
 - Choose from: MUSI 370-371, 380
- Applied Lessons (22)
 - Principal Instrument (15)
 - Choose from: MUSI 205-219, 405-419 (15)
 - MUSI 399: ~~Keystone~~: Junior Recital (3)
 - MUSI 499: Capstone: Senior Project (Senior Recital) (4)
- ~~J-Term — 1 required (4)~~
- ~~MUSI 390/391: Intensive Performance (4)~~
- Concentration Module (13)
 - MUSI 345: Conducting I (1)

- MUSI 346: Conducting II (1)
- MUSI 381: Chamber Ensemble (2)
- MUSI 420: Private Instruction: Pedagogy (2)
- Choose seven credits from the following:
 - MUSI 201-219, 401-419: Private Instruction (in secondary area) (1-2)
 - MUSI 241: String Lab I (1)
 - MUSI 242: String Lab II (1)
 - MUSI 243: Woodwind Lab I (1)
 - MUSI 244: Woodwind Lab II (1)
 - MUSI 245: Brass Lab I (1)
 - MUSI 246: Brass Lab II (1)
 - MUSI 247: Percussion Lab (1)
 - MUSI 325: Class Composition I (2)
 - MUSI 326: Class Composition II (2)
 - MUSI 421: Functional Piano for the Professional Musician (2)
 - MUSI 445: Conducting III (1)
 - ~~MUSI 446: Conducting IV (1)~~
- Electives (4 8)
 - Choose any MUSI 300-4998 not already used in the major

Organ (Performance)

84 semester hours

- Music Core (33)
- Ensemble (8)
 - MUSI 381: Chamber Ensemble (1)
 - Music Ensembles (7)
 - Choose from: MUSI 360-383 (one each semester)
- Applied Lessons (22)
 - MUSI 203: Private Instruction: Organ (8)
 - MUSI 403: Private Instruction: Organ (7)
 - MUSI 399: Keystone: Junior Recital (3)
 - MUSI 499: Capstone: Senior Project (Senior Recital) (4)
- ~~J Term – One Required (4)~~
 - ~~MUSI 390/391: Intensive Performance (4)~~
- Concentration Module (13)
 - MUSI 219: Harpsichord (1)
 - MUSI 345: Conducting I (1)
 - MUSI 346: Conducting II (1)
 - MUSI 352: Organ – Improvisation (1)
 - MUSI 420: Private Instruction: Pedagogy (2)

- MUSI 421: Functional Piano for the Professional Musician (2)
- Choose five credits from the following:
 - MUSI 325: Class Composition I (2)
 - MUSI 326: Class Composition II (2)
 - MUSI 445: Conducting III (1)
 - ~~MUSI 446: Conducting IV (1)~~
 - MUSI 451: Piano Pedagogy (2)
 - MUSI 453: Vocal Pedagogy (2)
- Electives (~~4~~ 8)
 - Choose any MUSI 300-499~~8~~ not already used in the major

Piano (Performance)

84 semester hours

- Music Core (33)
- Ensembles (8)
 - Choose from: MUSI 360-363, 370-371, 380 (2)
 - MUSI 351: ~~Accompanying~~ Collaborative Piano Studies (2)
 - MUSI 383: Piano Ensemble (2)
 - Piano ensemble electives (2)
 - Choose from: MUSI 351, 360-363, 370-371, 380, 383
- Applied Lessons (22)
 - MUSI 202 or 402: Private Instruction – Piano (15)
 - MUSI 399: ~~Keystone:~~ Junior Recital (3)
 - MUSI 499: Capstone: Senior Project (Senior Recital) (4)
- ~~J Term (One Required)~~
 - ~~MUSI 390/391: Intensive Performance (4)~~
- Concentration Module (~~10~~ 11)
 - MUSI 219: Harpsichord (1) or MUSI 203: Organ (1)
 - MUSI 345: Conducting I (1)
 - **MUSI 346: Conducting II (1)**
 - MUSI 421: Functional Piano for the Professional Musician (2)
 - MUSI 430: Piano Literature 1 (2)
 - MUSI 431: Piano Literature 2 (2)
 - MUSI 451: Piano Pedagogy (2)
- Electives (~~7~~ 10)
 - Choose any MUSI 300-499~~8~~ not already used in the major

Voice (Performance)

88 semester hours

- Music Core (33)
- Ensembles (8)
 - Choral Ensemble: Choose from: MUSI 360-363 (one each semester)
- Applied Lessons (22)
 - MUSI 204 or 404: Private Instruction – Voice (15)
 - MUSI 399: ~~Keystone:~~ Junior Recital (3)
 - MUSI 499: Capstone: Senior Project (Senior Recital) (4)
- J-Term – One Required (4)
 - ~~MUSI 390/391: Intensive Performance (4)~~
 - **MUSI 366: Opera (4)**
- Concentration Module (~~9~~ **10**)
 - MUSI 345: Conducting I (1)
 - **MUSI 346: Conducting II (1)**
 - MUSI 353: Solo Vocal Lit (2)
 - MUSI 355: Diction I (1)
 - MUSI 356: Diction II (1)
 - MUSI 366: Opera (2)
 - MUSI 453: Vocal Pedagogy (2)
- Electives (~~4~~ **3**)
 - Choose any MUSI 300-499 not already used in the major
- Language (one year required) (8)
 - Choose from FREN ~~or GERM~~ 101, 102, 201, 202, 301, 302

Minors

General Minor

22 semester hours including:

- MUSI 120: Music and Culture (4)
- MUSI 125, 126, 136 (5)
- One of the following: MUSI 151, 152, or 251 (1)
- 4 semester hours of Private Instruction: (MUSI 201-219, 401-419)
- 4 semester hours of Ensemble (MUSI 360-383)
- One of the following: MUSI 101-106, 301-302

Specialized Minor

32 semester hours

- Includes courses required in the General Minor as listed above (22 semester hours), plus:
 - 4 additional semester hours of Private Instruction (MUSI 401-419)
 - 6 additional hours from one of the Bachelor of Music concentration modules (see above) or in jazz study as listed below.

Jazz Study at PLU

Students interested in pursuing the academic study of jazz at PLU have three options:

Specialized Music Minor in Jazz

32 semester hours, including:

- Courses in the general minor (22 semester hours), plus 4 additional semester hours of private instruction.
- Six additional semester hours, including: MUSI 103 and 427
- Jazz students may fulfill the ensemble requirement in jazz-related ensembles.

Jazz study in combination with an outside, non-music field (Bachelor of Musical Arts degree)

62 semester hours

Jazz students may major in music under the B.M.A. degree while combining music studies with a non-music academic minor or second major. In this program, all private lesson and ensemble credit may be in jazz.

Jazz study in combination with non-jazz (classical) performance study (Bachelor of Music degree)

~~80~~ **84** *semester hours*

Instrumental jazz students may major in performance (see Bachelor of Music above) in which up to half the studio instruction and recital literature can be in jazz (see academic program contract for details).

Private Music Lessons

Special fee in addition to tuition. Private music lesson fees are non-refundable.

One Semester Hour

Fall and Spring Semesters: One half-hour private lesson per week (12 weeks) in addition to daily practice. Students in piano, voice, and guitar may be assigned to class instruction at the discretion of the music faculty.

Two Semester Hours

Fall and Spring Semesters: One-hour lesson per week (12 weeks) in addition to daily practice.

Three or Four Semester Hours

By permission of department only.

Courses**Music (MUSI) - Undergraduate Courses**

MUSI 106 : Music of Scandinavia **and the Nordic Region** - AR, C
Survey A survey of **Nordic and** Scandinavian music from the Bronze Age to the present, ~~with primary focus on the music of Denmark, Finland, Norway, and Sweden~~ including the classical, folk, and popular traditions found within the **Nordic** region. (4)

MUSI 327 : **Classical Music** Composition AR

A systematic approach to contemporary musical composition; students create and notate works for solo, small and large ensembles. May be repeated for additional credit. Private instruction; special fee in addition to tuition. Students register in 327A for 1 hour; 327B for 2 hours; 327C for 3 or 4 hours.

Prerequisites: MUSI 325 and 326 or consent of instructor.

~~MUSI 328 : Electronic Media~~

~~Application of electronic media and techniques to compositional process. Private instruction; special fee in addition to tuition. May be repeated for credit. Students register in 328A for 1 hour; 328B for 2 hours; 328C for 3 or 4 hours. (1 to 4)~~

MUSI 329 : ~~Songwriting and Audio Production~~ **Popular Songwriting and Media Music** - AR

A systematic approach to the creation and recording of popular and commercial music. May be repeated for additional credit. Private instruction; special fee in addition to tuition. Students register in MUSI 329A for 1 hour; MUSI 329B for 2 hours; MUSIC 329C for 3 or 4 hours (1 to 4)

~~MUSI 348 : Practicum in Music Education~~

~~Field experience teaching in elementary, middle or junior high school; provides laboratory experience in teaching prior to full student teaching experience. Prerequisite: MUSI 340; Recommended: enroll fall semester preceding student teaching. (1)~~

MUSI 351 : ~~Accompanying~~ **Collaborative Piano Studies** - AR

Laboratory experience in accompanying representative vocal and instrumental solo literature in the soloist's private lesson studio. Prerequisite: consent of instructor. (1)

MUSI 363 : University Singers - AR

The study and performance of repertoire for **women's soprano and alto** voices. Emphasis on individual vocal and musical development. (1)

MUSI 381 : Chamber Ensemble - AR

Reading, rehearsal, and performance of selected ~~instrumental chamber music~~ **music for smaller ensembles**. ~~Sections offered in string, brass, woodwind, early instruments, guitar, jazz and world music.~~ Prerequisite: consent of instructor. (1)

~~MUSI 391 : Intensive Performance Study: Conservatory Experience~~

~~Intensive study and practice of solo repertoire; special fee in addition to tuition. Prerequisite: consent of instructor. (4)~~

~~MUSI 398 : Keystone: Introduction to Music Research~~

~~Introduction to principles and standards relevant to academic research in music; exploration of common research materials and experience with practices and techniques in this field. (2)~~

~~MUSI 440 : Introduction to General Music Methods~~

~~Introduction to methods and materials for teaching general music courses in K-12 schools. Music education majors only. Prerequisite: MUSI 340. (2)~~

~~MUSI 441 : Advanced Elementary Music Methods~~

~~Exploration of Orff, Kodaly, Dalcroze, and Gordon approaches. Elementary choral methods and materials. Child voice and changing voice. Music education majors only. Prerequisite: MUSI 440. (2)~~

~~MUSI 443 : Methods of Secondary Choral Music~~

~~The organization and administration of the secondary school choral program. Prerequisite: MUSI 340. (2)~~

~~MUSI 444 : Materials of Secondary Choral Music~~

~~Survey of choral literature appropriate for the various age and experience levels of students in grades 4-12, including sources and research techniques. Prerequisite: MUSI 340. (2)~~

~~MUSI 445 : Conducting III~~

~~Refinement of patterns, gestures, and conducting techniques; application to appropriate vocal and instrumental scores. Prerequisite: MUSI 346 or consent of instructor; Section A (Instrumental); Section B (Choral). (1)~~

~~MUSI 446 : Conducting IV~~

~~Continuation of MUSI 445; application and development of skills in laboratory ensemble. Prerequisite: MUSI 445 or consent of instructor; Section A- Instrumental, Section B- Choral. (1)~~

~~MUSI 447 : Methods of School Band Music~~

~~The organization and administration of the secondary school band program. Prerequisite: MUSI 340. (2)~~

~~MUSI 448 : Materials for School Band Music~~

~~Survey of wind-percussion literature appropriate for the various age and experience levels of students in grades 4-12, including sources and research techniques. Prerequisite: MUSI 340. (2)~~

~~MUSI 455 : String Pedagogy~~

~~Teaching techniques for prospective teachers of strings with emphasis on individual student instruction. Methods and materials from beginning through advanced levels. (2)~~

~~MUSI 456 : Methods and Materials for School Strings~~

~~The organization and administration of school string programs, elementary through secondary. (2)~~

MUSI 460 : Elementary Music Methods

A survey of materials and pedagogical approaches to teaching in the elementary music classroom. Prerequisite: MUSI 340. (3)

MUSI 461 : Band Repertoire and Rehearsal

A survey of repertoire and rehearsal techniques for teaching in a secondary band setting. Prerequisite: MUSI 340. (3)

MUSI 462 : Choral Repertoire and Rehearsal

A survey of repertoire and rehearsal techniques for teaching in a secondary choral setting. Prerequisite: MUSI 340. (3)

MUSI 463 : Orchestral Repertoire and Rehearsal

A survey of repertoire and rehearsal techniques for teaching in a secondary orchestral setting. Prerequisite: MUSI 340. (3)

MUSI 464 : Practicum in Music Education I

Music education students complete a minimum of 30 hours of field experience in local schools. Prerequisite: MUSI 340. Students enroll 2-3 semesters prior to student teaching. (1)

MUSI 465 : Practicum in Music Education II (Pre-Student Teaching)

Music education students complete a minimum of 60 hours of field experience in a local school. Students enroll in the semester immediately preceding student teaching. Prerequisite: MUSI 340; MUSI 460; MUSI 461, 462, or 463 (depending on area of concentration); and MUSI 464. (1)

Catalog

Entry-Level Master of Science in Nursing Program**Care and Outcomes Manager**

The Entry-Level M.S.N. is a cohort program designed to prepare candidates with a previous bachelor's or higher degree to gain RN licensure and the M.S.N. degree. The sequence of study recognizes the academic success of the non-nursing graduate by providing a focused immersion into nursing followed by graduate study. Students do not receive a B.S.N. degree, but following successful completion of the first 15-months of study, they are eligible to sit for the NCLEX-RN for registered nurse licensure and to continue in the Care and Outcomes Manager (COM) M.S.N curriculum. A limited cohort is admitted each year and admission is competitive.

The Entry-Level M.S.N. program is clinically and academically intensive to assure the student of adequate exposure to the RN role and responsibilities. Entry-Level M.S.N. students must maintain full-time status throughout their entire program of study. Prior to entering graduate-level studies, Entry-Level M.S.N. students participate in a 15-month intensive program at the undergraduate level leading to RN eligibility. During the pre-licensure program component, outside employment is not recommended because it may significantly impair student performance. After obtaining RN licensure midway through the program, the students are encouraged and expected to work part-time as nurses while enrolled full-time in graduate-level courses. Participation in an RN residency program, however, is not recommended because scheduling conflicts with nursing courses and residency hours may significantly impair student performance. Students are expected to complete the entire 27-month program with their cohort.

Please note: Students withdrawing from the Entry-Level M.S.N. program after RN licensure, but before completing the graduate degree, will not have an academic nursing degree from PLU, and will not be able to sustain/obtain licensure in the State of Washington and/or other states.

Entry-Level M.S.N. Pre-Licensure and Care and Outcomes Manager Curriculum

56 semester hours (pre-licensure)

31 semester hours (post-licensure, at minimum)

- **Prerequisite Courses**

- Introductory Statistics (including inferential and descriptive) (4)
- Human Anatomy and Physiology I (with lab) (5)
- Human Anatomy and Physiology II (with lab) (5)
- Introductory Microbiology (with lab) (4)
- Lifespan Developmental Psychology (4)

- **Pre-Licensure Coursework**

- ~~NURS 220: Nursing Competencies I (4)~~
- ~~NURS 260: Professional Foundations I (4)~~
- ~~NURS 270: Health Assessment and Promotion (4)~~
- ~~NURS 280: Human Pathological Processes (4)~~
- ~~NURS 320: Nursing Competencies II (2)~~
- ~~NURS 330: Pharmacology & Therapeutic Modalities (4)~~
- ~~NURS 340: Nursing Situations w/ Individuals: Adult Health I (4)~~
- ~~NURS 350: Nursing Situations w/ Individuals: Mental Health (4)~~
- ~~NURS 370: Nursing Situations w/ Families: Childbearing (OB) (4)~~
- ~~NURS 375: Nursing Research (2)~~
- ~~NURS 380: Nursing Situations with Families: Childrearing (Peds) (4)~~
- ~~NURS 430: Nursing Situations with Communities (5)~~
- ~~NURS 440: Nursing Situations w/ Individuals: Adult Health II (4)~~
- ~~NURS 441: Situations Seminar (1)~~
- ~~NURS 499: Nursing Synthesis (6)~~

- **NURS 305 Patho/Pharm I (4)**

- **NURS 306 Found. Of Care Delivery/Health Promotion (3)**
- **NURS 307 Health & Physical Assessment (3)**
- **NURS 308 Clinical Practicum I (3)**
- **NURS 309 Prof Foundations & Principles of Leadership (2)**
- **NURS 310 Scholarly Writing Concepts (1)**
- **NURS 311 Patho/Pharm II (2)**
- **NURS 314 Care of Chronic Conditions (3)**
- **NURS 315 Psych/Mental Health (2)**
- **NURS 316 Clinical Practicum II (5)**
- **NURS 401 Care of Complex Conditions (3)**
- **NURS 402 Patho/Pharm III (2)**
- **NURS 403 Clinical Practicum III (5)**
- **NURS 404 Healthcare Diversity (4)**
- **NURS 405 Informed Practice (2)**
- **NURS 406 Continuity of Care (3)**
- **NURS 407 Clinical Practicum IV (6)**
- **NURS 483 Transition to Practice (1)**
- **NURS 499 Capstone Project (2)**

After completing the pre-licensure curriculum and upon successfully obtaining RN licensure in Washington State, students continue the Entry-Level M.S.N. Care and Outcomes Manager curriculum.

- **M.S.N. Core Coursework**

- NURS 523: Roles of the Advanced Nurse (2)
- NURS 525: Theoretical Foundations (3)
- NURS 526: Leadership and Management (3)
- NURS 527: Evaluation and Outcomes Research (3)
- NURS 530: Resource Management (3)
- NURS 531: Care and Outcomes Manager Practicum I (3)
- NURS 534: Informatics and Nursing and Healthcare (2)
- NURS 541: Advanced Health Assessment and Health Promotion (3)
- NURS 542: Advanced Pathophysiology and Pharmacology for Nursing Practice (3)
- NURS 544: Advanced Nursing Management of Illness and Disease (4)
- NURS 596: Scholarly Inquiry in Nursing Practice (2)

- **Optional Courses**

(for students desiring to take certification exams – optional courses are not required for the MSN degree)

- NURS 532: Clinical Outcomes Management II (5) *(course required to sit for CNL exam)*

OR

- MSN Nurse Educator Specialty Courses (additional 18+ credits)
(courses required to sit for CNE exam)
- NURS 538: Program Development (3)
- NURS 550: Curriculum, Instruction, and Evaluation (3)
- NURS 595: Internship (2 to 12)

Courses

Master of Science in Nursing (M.S.N.) - Graduate Courses

~~NURS 220 : Nursing Competencies I~~

~~Focuses on the core knowledge and competencies of therapeutic communication, and technical skills associated with health management. Includes a clinical practicum 50 hours. Prerequisites: BIOL 205, 206; CHEM 105, PSYC 101. Prerequisite or corequisites: BIOL 201, PSYC 320. (4) (2 credits didactic, 1 credit lab, 1 credit clinical)~~

~~NURS 260 : Professional Foundations I~~

~~Focuses on nursing as a profession and discipline. The nursing process is introduced as a framework for critical thinking and caring. Open to non-nursing students with permission of instructor. Prerequisite: NURS 220. (4) (4 credits didactic)~~

~~NURS 270 : Health Assessment and Promotion~~

~~Focuses on the core knowledge and competencies necessary to perform health assessments and promote health across the life span. Prerequisites: prior or concurrent with NURS 260 and 280. (4) (3 credits didactic, 1 credit lab)~~

~~NURS 280 : Human Pathological Processes~~

~~Focuses on human responses to major forms of pathophysiology. Prerequisites: Majors complete BIOL 201, 206 and CHEM 105. Non-majors must receive permission from the instructor. (4) (4 credits didactic)~~

~~NURS 320 : Nursing Competencies II~~

~~Focuses on the core knowledge and competencies of advanced technical skills associated with health management. Prerequisites: NURS 260, 270, 280, Junior I status. (2) (1 credit didactic, 1 credit lab)~~

~~NURS 330 : Pharmacology and Therapeutic Modalities for Nursing~~

~~Focuses on pharmacological principles of major drug classifications, therapeutic modalities, and alternatives to pharmacological interventions. Prerequisite for majors: NURS 280, achievement of Junior I status. Non-majors must receive permission from the instructor. (4) (4 credits didactic)~~

~~NURS 340 : Nursing Situations with Individuals: Adult Health I~~

~~Focuses on the core knowledge and competencies necessary to apply the nursing process to situations with individuals experiencing selected alterations in health. Includes a clinical practicum of 84 hours. Prerequisites: prior or concurrent enrollment in NURS 320 and 330, achievement of Junior I status. (4) (2 credits didactic, 2 credits clinical)~~

~~NURS 350 : Nursing Situations with Individuals: Mental Health~~

~~Focuses on the core knowledge and competencies necessary to apply the nursing process to situations with individuals experiencing mental health issues. Includes a clinical practicum of 84 hours. Prerequisites: prior or concurrent enrollment in NURS 330, achievement of Junior I status. (4) (2 credits didactic, 1 credit seminar, 1 credit clinical)~~

~~NURS 370 : Nursing Situations with Families: Childbearing~~

~~Focuses on the core knowledge and competencies necessary to apply the nursing process to situations with childbearing families. Includes a clinical practicum of 84 hours. Prerequisites: NURS 320, 330, 340, 350, achievement of Junior II status. (4) (2 credits didactic, 1 credit seminar, 1 credit clinical)~~

~~NURS 375 : Nursing Research~~

~~Examines principles of nursing and health care research, focusing on the basic elements of the research process and the application of evidence to clinical practice. For Entry-Level MSN students. (2) (2 credits didactic)~~

~~NURS 380 : Nursing Situations with Families: Childrearing~~

~~Focuses on the core knowledge and competencies necessary to apply the nursing process to situations with infants, children, adolescents and their families. Includes a clinical practicum of 84 hours. Prerequisites: NURS 320, 330, 340, 350, achievement of Junior II status. (4) (2 credits didactic, 1 credit seminar, 1 credit clinical)~~

~~NURS 430 : Nursing Situations with Communities~~

~~Focuses on the core knowledge and competencies necessary to apply the nursing process to situations with the community as client. Includes a clinical of 84 hours. Prerequisites: prior or concurrent enrollment in NURS 420, achievement of Senior I status. (5) (3 credits didactic, 2 credits clinical)~~

~~NURS 440 : Nursing Situations with Individuals: Adult Health II~~

~~Focuses on the core knowledge and competencies necessary to apply the nursing process to situations with individuals experiencing complex alterations in~~

health. Includes a clinical practicum of 84 hours. Prerequisites: NURS 360, 370, and 380, achievement of Senior I status. (4) (2 credits didactic, 2 credits clinical)

NURS 441 : Senior Seminar

Exploration and integration of core knowledge and competencies related to complex alterations in the health of individuals experiencing complex alterations in health. Prerequisites: prior or concurrent enrollment in NURS 440 and achievement of Senior I status. (1) (1 credit seminar)

NURS 480 : Professional Foundations II

Critical evaluation of role transition into professional nursing. Prerequisites: concurrent enrollment in NURS 499, achievement of Senior II status. (2) (1 credit didactic, 1 credit seminar)

NURS 499 : Capstone: Nursing Synthesis – SR

Synthesis of core knowledge, competencies, professional values, and leadership skills in nursing situations mentored by a professional nurse preceptor. Includes a clinical practicum 252 hours. Prerequisites: NURS 420, 430, 440, 441, prior or concurrent enrollment in NURS 460 and 480, and achievement of Senior II status. (6) (1 credit didactic, 5 credits clinical)

NURS 305 : Patho/Pharm I

This is the first course in a series of 3 that provide an integrated understanding of the human response to pathological conditions and the associated pharmacological principles of major drug classifications, therapeutic modalities and alternatives to pharmacologic interventions of these conditions. (4)

NURS 306 : Foundations of Care Delivery & Health Promotion

Focuses on the core knowledge and competencies necessary to promote health and provide nursing care across the lifespan. (3)

NURS 307 : Health & Physical Assessment

Focuses on the core knowledge and competencies necessary to perform health and physical assessment across the lifespan. (3) (2 credits didactic, 1 credit lab)

NURS 308 : Clinical Practicum I

Focuses on the practical application of core knowledge and competencies across the lifespan. Includes simulation, lab, and clinical practicum. (3)

NURS 309 : Professional Foundations & Principles of Leadership
Focuses on the core knowledge and competencies of nursing practice. (2)

NURS 310 : Scholarly Writing Concepts
Focuses on the basic rules of APA Style in writing term papers, research reports, and journal articles. (1)

NURS 311 : Patho/Pharm II
This is the second course in a series of 3 that provide an integrated understanding of the human response to pathological conditions and the associated pharmacological treatment modalities and alternatives to pharmacologic interventions of these conditions. (2)

NURS 314 : Care of Chronic Conditions
Focuses on the core knowledge necessary to apply the nursing process to care of the patients across the lifespan living with chronic conditions. (3)

NURS 315 : Psych/Mental Health
Focuses on the core knowledge necessary to apply the nursing process to care of the patients across the lifespan experiencing mental health issues. (2)

NURS 316 : Clinical Practicum II
Focuses on the practical application of core knowledge and competencies across the lifespan. Includes simulation, lab, and clinical practicum. (5)

NURS 401 : Care of Complex Conditions
Focuses on the core knowledge necessary to apply the nursing process to care of the patients across the lifespan with exacerbations of chronic and/or acute conditions in complex care situations. (3)

NURS 402 : Patho/Pharm III
This is the Final course in a series of 3 that Provide an integrated understanding of the human response to pathological conditions and the associated pharmacological principles of major drug classifications, therapeutic modalities and alternatives to pharmacologic interventions of these conditions. (2)

NURS 403 : Clinical Practicum III

Focuses on the practical application of core knowledge and competencies across the lifespan. Includes simulation, lab, and clinical practicum. (5)

NURS 404 : Healthcare Diversity

Focuses on core knowledge and competencies necessary to give culturally congruent care to people from diverse populations. Open to non-nursing students with instructor permission. (4)

NURS 405 : Informed Practice

Focuses on the core knowledge of research required to assess research quality and its applicability to nursing practice. (2)

NURS 406 : Continuity of Care

Focuses on the core knowledge necessary to apply the nursing process to ensure continuity of care across settings for individuals and populations. (3)

NURS 407 : Clinical Practicum IV

Focuses on the practical application of core knowledge and competencies across the lifespan. Includes simulation, lab, and clinical practicum. (6)

NURS 483 : Transition to Practice

Transition and socialization into the BSN prepared Registered Nurse role is explored. Role transition includes the BSN's professional practice, certification and licensure requirements. (1)

NURS 499 : Capstone Project

Focuses on the practical application of core knowledge and competencies as evidenced by completion of a scholarly project. (2)

POLITICAL SCIENCE

Fall 2022

Type 3 – create new minor*

*Type 3 proposal requiring a vote at Faculty Assembly

[Minor in Pre-Law proposal link](#)

Catalog

Minor in Political Science

Prerequisites, when required, are listed in the individual course descriptions. Prior consultation with the instructor of any advanced course is invited. Students wishing to pursue a major or minor in political science are requested to declare the major or minor with the department chair as soon as possible. All political science courses must be completed with a grade of C- or better.

Minor

Minimum of 20 semester hours, including POLS 151

Minor programs should be planned in consultation with the departmental chair or a designated adviser.

Residency

A minimum of 12 semester hours for the major and 8 semester hours for the minor must be taken in residence at PLU.

Minor in Pre-Law

Minimum 20 semester hours

- **Foundations in the Law**
Minimum 4 semester hours required
 - **BUSA 303: Business Law & Ethics**
 - **POLS 370: Prisons & Prisoners**
 - **POLS 371: Judicial Process**
 - **POLS 372: Constitutional Law**
 - **POLS 373: Civil Rights & Civil Liberties**
 - **SOC 201: Criminal Justice**
 - **RELI 221: Medieval Christianity**
 - **RELI 361: Church History Studies**
- **Analytical Reasoning**
Minimum 4 semester hours required
 - **ECON 101: Principles of Microeconomics**
 - **ECON 102: Principles of Macroeconomics**

- **MATH 107: Mathematical Explorations or higher (Math placement or High School Math will not be accepted as a substitute for a course)**
- **Ethics**
Minimum 4 semester hours required
 - **RELI 226: Christian Ethics**
 - **HIST 248: Innovation, Ethics and Society**
 - **PHIL 125: Ethics & The Good Life**
 - **PHIL 128: Politics & The Good Society**
 - **PHIL 229: Human Rights**
- **Communication**
Minimum 4 semester hours required
 - **COMA 212: Public Speaking**
 - **ENGL 323: Writing in Professional and Public Settings**
 - **COMA 306: Persuasion**
 - **PPAP 301: The Book in Society**
 - **PPAP 302: Publishing Procedures**
 - **ENGL 393: The English Language**
- **Close Reading**
Minimum 4 semester hours required
 - **Any 300-level course with an LT designation**
 - **ENGL 400: Studies in Criticism and Theory**
 - **RELI 211: Religion and Literature of the Hebrew Bible**
 - **RELI 220: Early Christianity**
 - **RELI 221 Medieval Christianity**
 - **RELI 331: New Testament Studies**
 - **HIST 254: History of Hanford**
 - **HIST 305: Slavery in the Americas**
 - **HIST 346: Innovation and Technology**
 - **HIST 351: History of West and Northwest**
 - **HIST 362: Christians in Nazi Germany**

Pre-Law Advising

For information, see Pre-Professional Programs section of the catalog.

Catalog

<https://www.plu.edu/catalog-2021-2022/general-education/>

Engaging Arts and Performance (8): The study and experience of art, music, theatre, communication, and movement engage self-discovery and creativity while cultivating an appreciation for shared traditions of human expression.

- **Art, Music, Theatre (AR) (4):** The arts celebrate creative expression through an exploration of individual talents, masterworks, and the role of artistic voice in building community and culture. Students are invited to study and/or produce artistic works.
 - **Art:** *provides students with a foundation relating to visual analysis, historical and contemporary cultural inquiry, and exploration of the creative process. We are educating students to have an intricate role in art and society for the 21st Century.*
 - **Music:** *brings together students, faculty, and the public to explore, understand, present and appreciate the musical arts in all forms, genres and cultures.*
 - **Theatre:** *through a combination of scholarship and practice, the PLU program in Theatre creates opportunities for students to develop a critically reflective appreciation of the enduring challenges of the human condition through text and performance, and to understand the centrality of theatrical performance as a mode of knowing across cultures and societies.*
- **Physical Activity Fitness and Wellness (PE FT) (4) (2):** Physical activity provides the opportunity to explore, understand, cultivate, and appreciate the values, skills, and abilities that support a commitment to being physically active throughout the lifespan. Participation in these courses encourages the integration of the whole person in body, mind, and spirit.

Supplemental Gen Ed Program Information

<https://www.plu.edu/catalog-2021-2022/general-education/supplemental-gened-information/>

Engaging Arts and Performance (8):

- Arts, Music, Theatre (AR) – four semester hours from arts, music or theatre are required.
- ~~Physical Education~~ **Fitness and Wellness** (~~PE FT~~) – ~~four~~ **two** different ~~physical education fitness and wellness~~ activity courses, of which one must be PHED 100. ~~One hour of credit may be earned through approved sports participation (PHED 250)~~

Course Load

The normal course load for undergraduate students during Fall and Spring Semesters is 13 to 17 semester hours per semester, including ~~physical education~~ **fitness and wellness**. The minimum full-time course load is 12 semester hours. The minimum full-time load for graduate students is eight semester hours. A normal course load during the January Term is four semester hours with a maximum of five semester hours. For undergraduate students, a normal course load during a Summer Term is four semester hours with a maximum of five semester hours.

Transfer of Credit

- Three Semester Hours Minimum:
Transfer courses must be a minimum of three semester hours to fulfill a PLU four-hour general education element requirement. Transfer courses to fulfill any other semester hour General Education Program element (for example, ~~physical education~~ **fitness and wellness** course) must be a minimum of two-thirds of the PLU hour requirement.

Limitations: All Baccalaureate Degrees

<https://www.plu.edu/catalog-2021-2022/undergraduate-program/limitations-baccalaureate-degrees/>

~~Physical Education~~ **Fitness and Wellness** Courses: 8-Hour Rule
~~Four~~ **Two** different one-semester hour courses (~~PHED FTWL~~ 100–259), which must include ~~PHED FTWL~~ 100, are required for graduation. No more than eight of the one-semester hour ~~PE FT~~ activity courses may be counted toward graduation. Students are encouraged to select a variety of activities at appropriate skill levels. All ~~physical education~~ **fitness and wellness** activity courses are graded on the basis of A, Pass, or Fail and are taught on a coeducational basis.

Department of Kinesiology Catalog Page

<https://www.plu.edu/catalog-2021-2022/undergraduate-program/program-curriculum-information/kinesiology/>

Kinesiology (General Studies)

16 semester hours of **PHED FTWL**/KINS coursework

A maximum of six **PHED FTWL** activity course hours (**PE FT**) may count toward the kinesiology minor and at least four semester hours in the minor must be earned in KINS courses at the 300-400 level. KINS 360, 361, 490, 495, and 499 may not be taken toward the general studies minor. Students with majors in the Department of Kinesiology are not eligible to earn the kinesiology general studies minor.

~~Physical Education~~ **Fitness and Wellness Activity (PE FT) - Undergraduate Courses**

PHED FTWL 100 : Personalized Fitness Program - PE FT

To stimulate student interest in functional personally designed programs of physical activity; assessment of physical condition and skills; recommendation of specific programs for maintaining and improving physical health. Should be taken as a first-year student. (1)

PHED FTWL 150 : Adaptive Physical Activity - PE FT

An individualized ~~physical activity~~ **fitness and wellness** course designed to meet the needs of students with diagnosed disabilities or long-term injury who, because of their medical condition, are unable to be accommodated through regular activity courses offered in the department. (1)

PHED FTWL 151 : Beginning Golf - PE FT

Individual and Dual Activities Course in beginning golf. (1)

PHED FTWL 155 : Bowling - PE FT

Individual and Dual Activities Course in bowling. (1)

PHED FTWL 158 : Jogging and Running for Fitness - PE FT

Individual and dual activities course in jogging and running for fitness. (1)

PHED FTWL 159 : Walking for Health - PE FT

Individual and dual activities course in walking for health. (1)

PHED FTWL 162 : Beginning Tennis - PE FT

Individual and Dual Activities Course in tennis. (1)

PHED FTWL 163 : Beginning Badminton - PE FT

Individual and Dual Activities Course in badminton. (1)

PHED FTWL 164 : Pickleball - PE FT

Individual and Dual Activities Course in pickleball. (1)

PHED FTWL 173 : Mountaineering - PE FT

Individual and Dual Activities Course in mountaineering. (1)

PHED FTWL 177 : Weight Training - PE FT

Individual and Dual Activities Course in weight training. (1)

PHED FTWL 179 : Core and Stretch - PE FT

Individual and dual activities course in core and stretch (1).

PHED FTWL 182 : Low Impact Aerobics - PE FT

Individual and Dual Activities Course in low impact aerobics. (1)

PHED FTWL 183 : Power Aerobics - PE FT

Individual and Dual Activities Course in power aerobics. (1)

PHED FTWL 186 : Step Aerobics - PE FT

Individual and Dual Activities Course in step aerobics. (1)

PHED FTWL 188 : Boot Camp Conditioning - PE FT

Individual and Dual Activities Course in boot camp conditioning. (1)

PHED FTWL 189 : Kickboxing - PE FT

Individual and dual activities course in kickboxing. (1)

PHED FTWL 192 : Intermediate Tennis - PE FT

Individual and Dual Activities Course in intermediate tennis. (1)

PHED FTWL 197 : Advanced Weight Training - PE FT

Individual and Dual Activities Course in advanced weight training. (1)

PHED FTWL 201 : Swimming for Non-Swimmers - PE FT

Aquatics course in swimming for non-swimmers. (1)

PHED FTWL 205 : Skin & Scuba Diving - PE FT

Aquatics course in skin and scuba diving. (1)

PHED FTWL 207 : Basic Sailing - PE FT

Aquatics course in basic sailing. (1)

PHED FTWL 212 : Conditioning Swimming - PE FT

Aquatics course in conditioning swimming. (1)

PHED FTWL 222 : Jazz Dance Level I - PE FT

Rhythms course in jazz dance level I. (1)

PHED FTWL 223 : Yoga - PE FT

Rhythms course in yoga. (1)

PHED FTWL 224 : Salsa and Swing Dance - PE FT

Rhythms course in salsa and swing dance. (1)

PHED FTWL 225 : Ballroom Dance - PE FT

Rhythms course in ballroom dance. (1)

PHED FTWL 228 : Vinyasa Yoga - PE FT

Rhythm course in Vinyasa Yoga. (1)

PHED FTWL 229 : Zumba - PE FT

Rhythm course in Zumba. (1)

PHED FTWL 234 : Relaxation Techniques - PE FT

Rhythms course in relaxation techniques. (1)

PHED FTWL 241 : Co-Ed Basketball - PE FT

Team Activities course in co-ed basketball. (1)

PHED FTWL 244 : Co-Ed Volleyball - PE FT

Team activities course in co-ed volleyball. (1)

PHED FTWL 246 : Disc Sports - PE FT

Team activities course in Disc Sports. (1)

PHED FTWL 248 : World Games and Sports - PE FT

Team Activities course in world games and sports. (1)

PHED FTWL 250 : Directed Sports - PE FT

Team Activities course in directed sports. (1)

PHED FTWL 276 : Special Topics in Physical Activity – PE FT

Selected activities as announced by the department. Provides opportunities for activities not otherwise part of the regular activity course offerings. (1)

Courses that Fulfill General Education Program Elements (GenEd): ~~Physical Education Activity~~ Fitness and Wellness (PE FT)

<https://www.plu.edu/catalog-2021-2022/general-education/course-fulfillment/physical-education/>

~~Physical Education Activity~~ **Fitness and Wellness** (~~PE FT~~)

Course	Title
DANC 222	Beginning/Intermediate Jazz - AR, PE FT
DANC 251	Beginning/Intermediate Ballet - AR, PE FT
DANC 252	Beginning/Intermediate Contemporary - AR, PE FT
DANC 254	Beginning/Intermediate Tap - AR, PE FT
DANC 255	Beginning/Intermediate Hip Hop - AR, PE FT
KINS 319	Tramping the Tracks of New Zealand - PE FT
KINS 362	Healing Arts of the Mind and Body - A, PE FT
PHED FTWL 100	Personalized Fitness Program - PE FT
PHED FTWL 150	Adaptive Physical Activity - PE FT
PHED FTWL 151	Beginning Golf - PE FT
PHED FTWL 155	Bowling - PE FT
PHED FTWL 158	Jogging and Running for Fitness - PE FT
PHED FTWL 159	Walking for Health - PE FT
PHED FTWL 162	Beginning Tennis - PE FT
PHED FTWL 163	Beginning Badminton - PE FT
PHED FTWL 164	Pickleball - PE FT
PHED FTWL 173	Mountaineering - PE FT
PHED FTWL 177	Weight Training - PE FT
PHED FTWL 179	Core and Stretch - PE FT
PHED FTWL 182	Low Impact Aerobics - PE FT
PHED FTWL 183	Power Aerobics - PE FT
PHED FTWL 186	Step Aerobics - PE FT

PHED FTWL 188	Boot Camp Conditioning - PE FT
PHED FTWL 189	Kickboxing - PE FT
PHED FTWL 192	Intermediate Tennis - PE FT
PHED FTWL 197	Advanced Weight Training - PE FT
PHED FTWL 201	Swimming for Non-Swimmers - PE FT
PHED FTWL 205	Skin & Scuba Diving - PE FT
PHED FTWL 207	Basic Sailing - PE FT
PHED FTWL 212	Conditioning Swimming - PE FT
PHED FTWL 222	Jazz Dance Level I - PE FT
PHED FTWL 223	Yoga - PE FT
PHED FTWL 224	Salsa and Swing Dance - PE FT
PHED FTWL 225	Ballroom Dance - PE FT
PHED FTWL 228	Vinyasa Yoga - PE FT
PHED FTWL 229	Zumba - PE FT
PHED FTWL 234	Relaxation Techniques - PE FT
PHED FTWL 241	Co-Ed Basketball - PE FT
PHED FTWL 244	Co-Ed Volleyball - PE FT
PHED FTWL 246	Disc Sports - PE FT
PHED FTWL 248	World Games and Sports - PE FT
PHED FTWL 250	Directed Sports - PE FT
PHED FTWL 276	Special Topics in Physical Activity - PE FT

Theater and Dance

<https://www.plu.edu/catalog-2021-2022/undergraduate-program/program-curriculum-information/theatre-dance/>

Courses in the Department of Theatre and Dance that satisfy General Education Program Elements

- The following courses from theatre and dance may be used to meet the General Education Program element in the Arts (AR):
 - THEA 160, 215, 250, 252, 254, 255, 360, 362, 365, 390, 453 and DANC 170, 222, 240, 251, 252, 254, 255.
 - DANC 222, 251, 252, 254, 255 meet the General Education Program element in ~~Physical Education~~ **Fitness and Wellness (PE FT)**.
 - DANC 301 meets the General Education Program element in Cross-Cultural Perspectives (C).

Minors

Theatre

20 semester hours of any THEA courses; at least 4 semester hours must be upper-division (300 or 400 level).

Dance

16 semester hours, including:

12 semester hours of DANC courses plus 4 semester hours chosen from: additional DANC courses, KINS 277, 280, **PHED FTWL** 223, 224, 225, MUSI 101, 120, THEA 250, 254, 285, 355, 453. At least 4 semester hours must be upper-division (300 or 400 level).

Dance (DANC) - Undergraduate Courses

DANC 222 : Beginning/Intermediate Jazz - AR, **PE FT**

Students practice jazz dance technique, jazz choreography, and learn the history of jazz dance. Designed for students who have never taken a jazz dance class before, as well as for more experienced dancers. Repeatable for credit up to 4 times. May not be repeated for **PE FT** credit. Cross-listed with **PHED FTWL** 222.
(1)

DANC 251 : Beginning/Intermediate Ballet - AR, **PE FT**

Students practice ballet technique, ballet choreography, and learn the history of ballet. Designed for students who have never taken a ballet class before, as well as for more experienced dancers. Repeatable for credit up to 4 times. May not be repeated for **PE FT** credit. (1)

DANC 252 : Beginning/Intermediate Contemporary - AR, **PE FT**

Students practice contemporary dance technique, contemporary choreography, and learn the history of contemporary and modern dance. Designed for students who have never taken a contemporary dance class before, as well as for more experienced dancers. Repeatable for credit up to 4 times. May not be repeated for **PE FT** credit. (1)

DANC 254 : Beginning/Intermediate Tap - AR, **PE FT**

Students practice tap dance technique, tap choreography, and learn the history of tap dance. Designed for students who have never taken a tap dance class before, as well as for more experienced dancers. Repeatable for credit up to 4 times. May not be repeated for **PE FT** credit. (1)

DANC 255 : Beginning/Intermediate Hip Hop - AR, **PE FT**

Students practice hip hop dance technique, hip hop choreography, and learn the history of hip hop. Designed for students who have never taken a hip hop dance class before, as well as more experienced dancers. Repeatable for credit up to 4 times. May not be repeated for **PE FT** credit. (1)

Chemistry

<https://www.plu.edu/catalog-2021-2022/undergraduate-program/program-curriculum-information/chemistry/>

Bachelor of Science Degree - Generalized Chemistry Curriculum

First Year: Fall Semester

- CHEM 115
- First-Year Inquiry or Writing Seminar (and/or BIOL 225 for students interested in B.S. in chemistry, biochemistry emphasis)
- MATH 151

- ~~PHED~~ FTWL 100 or other activity course
- A General Education Program Element course

First Year: Spring Semester

- CHEM 116
- First-Year Inquiry or Writing Seminar and/or BIOL 226
- MATH 152
- ~~PHED~~ FTWL 100 or other activity course

Second Year: Fall Semester

- CHEM 331, 333
- PHYS 153, 163
- Two additional courses

Second Year: J-Term

- CHEM 410 (Can also be done in J-Term of the third year; confirm scheduling with the chair)

Second Year: Spring Semester

- CHEM 332, 334 (or 336), 320
- PHYS 154, 164

Third Year: Fall Semester

- CHEM 341, 343, 403
- General Education Program course(s)
- Elective

Third Year: J-Term

- CHEM 410 (Can also be done in J-Term of the second year; confirm scheduling with the chair)

Third Year: Spring Semester

- CHEM 342, 344
- For B.S. in chemistry with biochemistry emphasis, BIOL 330, 342, 358, 442, 445, 448, 453 may be substituted for CHEM 342 and 344.

- CHEM 405 (for biochemistry emphasis)
- General Education Program course(s)
- Elective

Fourth Year: Fall Semester

- CHEM 499A
- Alternate Year Advanced CHEM Elective (for ACS Certification and/or B.S.)
- Electives

Fourth Year: Spring Semester

- CHEM 420, 499B
- Electives

Glossary of Terms

<https://www.plu.edu/catalog-2021-2022/glossary-of-terms/>

~~PE FT: Physical Education~~ **Fitness and Wellness** GenEd Element

~~PHED FTWL: Physical Education~~ **Fitness and Wellness**

International Honors Program

<https://www.plu.edu/catalog-2021-2022/general-education/international-honors-program/>

28 semester hours

The International Honors Program (IHON) provides a select group of entering first-year students a challenging and creative alternative to the General Education Program, which reflects PLU's unique mission and emphasis upon the liberal arts. Consequently, IHON accounts for 32 of the 48 semester hours that are required by the General Education Program. Although just seven courses (28 hours), the program fulfills 32 semester hours due to the interdisciplinary nature of the program. Accordingly, students who have satisfactorily completed the Honors Program receive credit for the following: Art, Music, Theatre (4);

Literature (4); Philosophy (4); Religion (8); Natural Sciences, Computer Science, or Mathematics (4); and Social Sciences (8).

International Honors students must complete the remaining 16 semester hours of the General Education Program prior to graduation from the University: First-Year Experience Program: Writing Seminar (4); ~~Physical Activity~~ **Fitness and Wellness** (4); Mathematical Reasoning (4); Science and Scientific Method (4); and Encountering Perspectives on Diversity (Alternative Perspectives and Cross-Cultural Perspectives). Students must complete four semester hours from each of the Perspectives on Diversity lines and both may concurrently fulfill another GenEd/IHON or major/minor requirement; Senior Seminar/ Project (these hours count in the major). For a full description of IHON and for details about applying to the program, go to the **International Honors Program** section of this catalog.

CORE CURRICULUM COMMITTEE

Fall 2022

Type 2 – create assessable learning outcomes for the GenEd elements

The general education core is our best opportunity to create a solid liberal arts foundation for learning in the major and in professional contexts after graduation. General education is central to our mission of educating well-rounded students who think, lead, and serve for the common good.

Also pressing (though subordinate to the quality of the education we provide), our accreditor has called on us to make substantive changes to how we think about program design and assessment. Specifically, they have called for us to:

1. Employ meaningful and appropriate measures for indicating the achievement of identified student learning outcomes (Standard 4.A.1)

We have already received one extension from NWCCU. We cannot request a second.

The revised core learning outcomes below present a vision of general education that is more clearly focused on student learning in that it emphasizes transparent core standards. These standards can be conveniently assessed on a regular basis. Using assessment data we will be able to make informed decisions about future changes to our general education pedagogy and curriculum design.

These outcomes were written in collaboration with the departments that regularly deliver each element. The Core Curriculum Committee has reached out to individual departments for their feedback throughout this approval process.

These learning outcomes will reside on the following website, <https://www.plu.edu/provost/learning-outcomes/>. Additionally, the relevant course outcomes will appear in the syllabus for any course meeting a general education requirement.

First Year Experience (FW, FI)

Writing Seminar (4): After completing the First-Year Writing Seminar (or an equivalent WR course):

- Students will employ rhetorical strategies effective for a specific context, purpose, and audience.
- Students will articulate, develop, and support an argument, point of view, or position, effectively using evidence relevant to the context.
- Students will implement strategies for revising the content, structure, and organization of their ideas.

Inquiry Seminar: After completing the First-Year Inquiry Seminar:

- Students will identify the topics of study, the kinds of questions scholars pursue, and what counts as valid evidence in the discipline/field.
- Students will identify and practice the strategies used for the communication of knowledge in a discipline/field.

Art, Music, and Theatre (AR)

- Students will demonstrate comprehension of the various artistic skills and processes that contribute to a finished production or product.
- Students will evaluate aesthetic quality through analysis and judgement about works of art in a given medium.

Physical Activity (PE)

PHED 100

- Students will know and appreciate the benefits of physical activity and active living.
- Students will understand the relationships between nutrition, stress management and physical activity on overall health and well-being.

Activity Courses

- Students will learn the basic knowledge and skills necessary for successful participation in the activity.
- Students will increase the awareness, knowledge and behavioral skills necessary to support a lifelong commitment to movement and physical activity.

Literature (LT)

- Students will use relevant interpretive strategies to pose critical questions about literary and/or cinematic texts.
- Students will identify and explain how the formal elements of language and genre shape meaning in literary and/or cinematic texts.
- Students will draw conclusions that consider multiple perspectives and prioritize relevant evidence in the development of well-reasoned arguments.

Philosophy (PH)

- Students will identify and justify the beliefs and values that inform their decision making.
- Students will interpret complex philosophical texts.
- Students will critique the arguments of others, fairly and respectfully.

Christian Traditions (RC)

- Students will demonstrate religious literacy about Christian traditions by locating them within their historical, cultural, or political contexts.
- Students will critically and empathetically analyze diverse forms of Christian texts, practices, histories, ethics, and/or theologies by applying an appropriate method from the academic study of religion.

Global Religious Traditions (RG)

- Students will be able to explain “religion” as a category of analysis, and identify how diverse religious traditions beyond Christianity shape human purpose, meaning, or action.
- Students will examine religious traditions beyond Christianity with respect to their origins, transmission, and/or place in their societies and cultures through approaches in the academic study of religion.

Mathematical Reasoning (MR)

- Students will demonstrate numeracy by solving quantitative problems and by interpreting quantitative information in context.
- Students will demonstrate the ability to work with mathematical notation, techniques and concepts.
- Students will create and critique logical arguments supported by quantitative evidence or symbolic relationships.

Natural Science, Computer Science, and Mathematics (NS)

- Students will understand and apply basic concepts from a particular discipline of the natural sciences.
- Students will identify and explain organizing models of a discipline.
- Students will identify social and ethical issues pertaining to a discipline.

Science and Scientific Method (SM)

- Students will use the scientific method to explore the natural world.
- Students will identify and assess hypotheses or meaningful questions based on their study of the natural world.
- Students will draw logical conclusions from experiments, observations, and/or relevant sources.

Social Sciences (SO1)

- Students will apply foundational concepts to the social sciences.
- Students will systematically analyze human behavior in relation to social contexts and group behavior.

Social Sciences (SO2)

- Students will display knowledge of cultural norms and biases.
- Students will evaluate the relationships between culture and human behaviors and/or actions.

Diversity: Alternative Perspectives (A)

- Students will examine diverse social perspectives and cultural traditions in a US context
- Students will gain awareness and understanding of diversity in the United States, directly addressing issues such as ethnicity, gender, disability, racism, or poverty.

Diversity: Cross-Cultural Perspectives (C)

- Students will locate cultural and social perspectives and traditions in a global context.
- Students will apply comparative perspectives to understand a variety of cultural conditions.

Senior Seminar (SR)

- Students will integrate and/or apply what they have learned in their general education and major/minor coursework (and co-curricular activities, as appropriate) to a substantive project.
- Students will apply one or more theories or concepts from their discipline to an analysis of a particular issue relevant to the field.
- Students will share their work with members of their scholarly community.

Curriculum Changes for Information Only

Deletions are indicated by ~~blue strikethrough~~ | Additions are indicated in **blue bold**
For conciseness, courses and catalog language sections that are not being changed, are not listed.

CHEMISTRY

Fall 2022

Type 1 – catalog correction

Course

CHEM 104 : Environmental Chemistry - NS, SM

Basic principles of chemistry and reactions, with applications to human activities and the natural environment. Includes laboratory. No prerequisites; ~~students without high school chemistry are encouraged to take CHEM 104 before taking CHEM 105 or CHEM 115. Also s~~**S**uitable for environmental studies, general science teachers, **elementary education**, B.A. in geosciences, ~~and general university core or fulfilling university general education~~ requirements. (4)

STEM EDUCATION

Fall 2022

Type 1 – catalog correction

Catalog

Minor

20 semester hours, including:

- EDUC 205: Multicultural Perspectives in the Classroom (4)
- NSCI 350: STEM Education Partnership (4)
-

In addition, STEM Education minors must complete a minimum of 12 ~~credit~~**semester** hours in the following areas ~~at PLU~~:

Biology & Chemistry (4)

4 semester hours

Choose from the following courses:

- BIOL 225: Molecules, Cells, and Organisms
- BIOL 226: Genes, Evolution, Diversity, and Ecology
- CHEM 104: Environmental Chemistry
- CHEM 115: General Chemistry I
- CHEM 116: General Chemistry II

Geosciences & Physics (4)

4 semester hours

Choose from the following courses:

- GEOS 102: General Oceanography
- GEOS 103: Earthquakes, Volcanoes, and Geologic Hazards
- GEOS 104: Conservation of Natural Resources
- GEOS 105: Meteorology
- GEOS 106: Geology of National Parks
- GEOS 107: Global Climate Changes
- PHYS 110: Astronomy
- PHYS 125: College Physics I
- PHYS 126: College Physics II
- PHYS 153: General Physics I
- PHYS 154: General Physics II

Computer Science & Mathematics (4)

4 semester hours

Choose from the following courses:

- DATA 133: Introduction to Data Science I
- CSCI 144: Introduction to Computer Science
- MATH 123: Modern Elementary Mathematics I
- MATH/STAT 145: Statistics for Biologists
- MATH 151: Calculus I
- MATH 152: Calculus II
- MATH/STAT 242: Introduction to Mathematical Statistics
- MATH 319: Introduction to Proofs: Geometry
- MATH/EDUC 446: Mathematics in the Secondary School

Students are expected to work closely with STEM Education faculty advisors to ensure their program of study meets the requirements. Students may substitute a 4-credit NSCI 495 Internship for NSCI 350 at the discretion of the program chair. The program chair is the instructor for NSCI 495.

Up to eight (8) approved **credits semester hours** from supporting majors and minors can be applied to the STEM Education minor. At least 12 semester hours must be earned in residence at PLU.