EPC 30 Day Clock Memo

TO: All Faculty
FROM: Educational Policies Committee
SUBJECT: Notice of Curriculum Changes
DATE: March 15, 2019

The 30 day review period begins March 15, 2019, and ends April 15, 2019

This notice of Curriculum Changes is published as required by the EPC Manual, part of the Faculty Handbook (8th edition). 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 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 Rebekah Mergenthal (History), Chair of the Educational Policies Committee for the 2018-19 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

- **Computer Science & Mathematics** – Modify CS majors, Math course prerequisites
- **Education** – Modify major, course co-requisites
- **German** – Modify major, minor, courses
- **Philosophy** – Modify major, courses, course offerings
- **Physics** – Modify major
- **Psychology** – Add course

Curriculum Changes for Information Only – Summary

- **Biology** – Change course title and description
- **Chemistry** – Change course description
- **Continuing Education** – Recent Course Offerings
- **Economics** – Change course prerequisite
- **Innovation Studies** – Change catalog
- **Music** – Change course title and description

Curriculum Changes for Review

Deletions are indicated by ~~strikethrough~~ | Additions are indicated in **bold**

COMPUTER SCIENCE & MATHEMATICS

Type 2 – Modify CS major requirements & Math course prerequisites *Fall 2019*

Catalog

Computer Science Majors

Students majoring in computer science may choose to earn either a Bachelor of Arts degree or a Bachelor of Science degree in computer science. The Bachelor of Arts program is the minimum preparation suitable for further professional study and is often combined with extensive study or a second major in an allied field. The Bachelor of Science degree is a strong, scientific degree that contains additional courses in computer science, mathematics, and science and serves both students going directly into employment on graduation and those going into graduate programs. Students should take CSCI 144, 270 and MATH 151, ~~152~~ **242** early in their program.

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Bachelor of Arts Degree
Major in Computer Science
28 semester hours in CSCI, plus 12 semester hours in mathematics

- CSCI 144, 270; 367 or 390; 499A, and 499B
- The remaining hours are from computer science courses numbered above CSCI 300 (except CSCI 331).
- Required supporting: MATH 151, ~~152,~~ **242,** and 245

Bachelor of Science Degree
Major in Computer Science
44 semester hours in CSCI, plus 30 semester hours of supporting courses in mathematics and science

- CSCI 144, 270, 302, 343, 371, 390, 444, 499A, and 499B
- 12 additional hours selected from computer science courses numbered above CSCI 300 (except 331), or hours from MATH 356 not counted toward the 30 hours of required supporting courses.

- The 30 hours of supporting courses in mathematics and science must include:
    - MATH 151, ~~152,~~ 242, 245**, 331**
    - A minimum of 8 semester hours of approved science courses, which includes a year's sequence of a laboratory science. PHYS 153, 154 with 163, 164 are preferred.
        - Also acceptable are any of the following three options: CHEM 115, 116; BIOL 225, 226; or one of GEOS 102-105 and GEOS 201
    - Approved sciences courses are: any BIOL, except 111; any CHEM, except 104, 105; any geosciences; any physics.
    - The remaining hours may be chosen from any mathematics course numbered above 320 (except 446), CSCI 331, CSCI 131, or any approved science course.

Courses

MATH 245: Discrete Structures – NS
Topics that are of relevance to computer scientists and computer engineers, including quantified logic, sets, relations, functions, recursion, combinatorics, and probability. Tools of logical reasoning, such as induction, proof by contradiction, and predicate calculus, will be taught and applied. Prerequisite: MATH 152 **or MATH/STAT 242**. (4)

MATH 331: Linear Algebra - NS
Vectors and abstract vector spaces, matrices, inner product spaces, linear transformations. Proofs will be emphasized. Prerequisites: ~~MATH 152 and one of~~ MATH ~~245,~~ 253~~,~~ or 317 **or both MATH 245 and CSCI 270**. (4)

EDUCATION
Type 2 – Modify major and course co-requisites *Fall 2019*

Catalog

Elementary Education/Special Education Professional Education Sequence
~~*70*~~ ***69*** *semester hours*

In this teacher certification program, candidates pursue an endorsement in special education (P-12) and elementary education (K-8) while earning a B.A.E. degree. Endorsements are awarded upon successful completion of coursework, Internship II (student teaching) experience and a passing edTPA score.

Students are encouraged to take the following courses prior to admission to the program:

- MATH 123 or equivalent – required prior to admission
- MATH 124 or equivalent – required by the end of Semester II
- KINS 322 or equivalent
- Life Science
- Physical Science

These courses, plus MUSI 341, must be completed prior to program completion.

First Year: Semester I (Fall)
13 semester hours

- EDUC 320: Issues of Child Abuse and Neglect (1)
- EDUC 330: Professional Practice I (0)
- ~~EDUC 331: Building Professional Learning Communities (2)~~
- EDUC 332: Communities, Schools, and Students (2)
- EDUC 333: Instructional and Classroom Management Systems (4)
- EDUC 334: Foundations of Educational Measurement (2)
- SPED 335: Educational Assessment & Evaluation (2)
- **SPED 450: Early Childhood Special Education (2)**

First Year: J-Term I
~~*5*~~ ***2*** *semester hours*

- ~~SPED 450: Early Childhood Special Education (2)~~
- ~~SPED 454: Moderate and Low Incidence Disabilities (3)~~
- **EDUC 331: Building Professional Learning Communities (2)**

First Year: Semester II (Spring)
17 semester hours

- EDUC 370: Professional Practice II (0)
- EDUC 371: Developing Professional Learning Communities (2)
- EDUC 372: Literacy, Language, and Assessment (4)
- EDUC 373: Mathematics, Science, and Assessment (4)
- EDUC 374: Management and Student Engagement (2)
- EDUC 375: Technology Integration (2)
- SPED 376: Instructional Methodologies for Inclusive Classrooms (3)

Second Year: Semester III (Fall)
~~*13*~~ ***16*** *semester hours*

- EDUC 402: Internship I (0)
- EDUC 403: Building Professional Learning Communities (2)
- EDUC 404: The Integration of Literacy in Social Studies (3)
- EDUC 405: Art Methods (2)
- EDUC 407: Writing Across the Curriculum (2)
- ~~SPED 404: Collaboration, Team Building, and Supervision (2)~~
- SPED 431: Students with Autism Spectrum Disorders (2)
- **SPED 442: Technology in Special Education (2)**
- **SPED 454: Moderate and Low Incidence Disabilities (3)**

Second Year: J-Term II
~~*5*~~ ***4*** *semester hours*

- ~~SPED 430: Students with Emotional and Behavioral Disabilities (3)~~
- ~~SPED 442: Technology in Special Education (2)~~
- **SPED 404: Collaboration, Team Building, and Supervision (2)**
- **EDUC 460: Professional Learning Communities (2)**

Passing scores on the WEST-E or NES endorsement tests for elementary education and special education must be received before a student can start in Semester IV.

Second Year: Semester IV (Spring)
17 semester hours

- EDUC 450: Seminar – SR (2)
- EDUC 455: Internship II ~~(13)~~ **(12)**
- **SPED 430: Students with Emotional and Behavioral Disabilities (3)**
- ~~EDUC 460: Professional Learning Communities (2)~~

Elementary Education/Reading Professional Education Sequence
68 semester hours

In this teacher certification program, candidates pursue an endorsement in reading and elementary education (K-8) while earning a B.A.E., degree. Endorsements are awarded upon successful completion of coursework, Internship II (student teaching) experience and a passing edTPA score.

Students are encouraged to take the following courses prior to admission to the program:

- MATH 123 or equivalent – required prior to admission
- MATH 124 or equivalent – required by the end of Semester II
- KINS 322 or equivalent
- Life Science
- Physical Science

These courses, plus MUSI 341, must be completed prior to program completion.

First Year: Semester I (Fall)
~~*13*~~ ***15*** *semester hours*

- EDUC 320: Issues of Child Abuse and Neglect (1)
- EDUC 330: Professional Practice I (0)
- ~~EDUC 331: Building Professional Learning Communities (2)~~
- EDUC 332: Communities, Schools, and Students (2)
- EDUC 333: Instructional and Classroom Management Systems (4)
- EDUC 334: Foundations of Educational Measurement (2)
- **EDUC 429: Children and Adolescent Literature in the K-8 Curriculum (2)**
- **EDUC 490: Acquisition and Development of Language (2)**
- SPED 335: Educational Assessment & Evaluation (2)

First Year: J-Term I
4 ***2*** *semester hours*

- **EDUC 331: Building Professional Learning Communities (2)**
- ~~EDUC 429: Children and Adolescent Literature in the K-8 Curriculum (2)~~
- ~~EDUC 490: Acquisition and Development of Language (2)~~

First Year: Semester II (Spring)
17 semester hours

- EDUC 370: Professional Practice II (0)
- EDUC 371: Developing Professional Learning Communities (2)
- EDUC 372: Literacy, Language, and Assessment (4)
- EDUC 373: Mathematics, Science, and Assessment (4)
- EDUC 374: Management and Student Engagement (2)
- EDUC 375: Technology Integration (2)
- SPED 377: Instructional Methodologies for Inclusive Classrooms (3)

Second Year: Semester III (Fall)
~~*13*~~ ***15*** *semester hours*

- EDUC 402: Internship I (0)
- EDUC 403: Building Professional Learning Communities (2)
- EDUC 404: The Integration of Literacy in Social Studies (3)
- EDUC 405: Art Methods (2)
- EDUC 407: Writing Across the Curriculum (2)
- EDUC 423: Linguistics for Language Literacy (2)
- **EDUC 428: Assessments in Literacy (2)**
- SPED 404: Collaboration, Team Building, and Supervision (2)

Second Year; J-Term II
~~*4*~~ ***2*** *semester hours*

- ~~EDUC 428: Assessments in Literacy (2)~~
- ~~EDUC 438: Strategies for Whole Literacy Instruction (K-8) (2)~~
- **EDUC 460: Professional Learning Communities (2)**

Passing scores on the WEST-E or NES endorsement test for elementary education and reading must be presented before a student can enroll in Semester IV.

Second Year: Semester IV (Spring)
17 semester hours

- **EDUC 438: Strategies for Whole Literacy Instruction (K-8) (2)**
- EDUC 450: Seminar – SR (2)
- EDUC 455: Internship II (13)
- ~~EDUC 460: Professional Learning Communities (2)~~

Courses

EDUC 330: Professional Practice I
Teacher candidates will be required to complete a minimum of 45 hours of fieldwork in a local school. ~~Co-registration in EDUC 331.~~ (0)

EDUC 331: Building Professional Learning Communities
Seminar groups to provide a critical inquiry bridge between university-based coursework and P-12 fieldwork through the department's/unit's core values of care, competence, difference, service, and leadership. ~~Co-registration in EDUC 330.~~ (2)

EDUC 455: Internship II
Teacher candidates will be required to complete a minimum of 450 hours of student teaching experience in local public schools under the supervision of PLU-assigned supervisors and classroom teachers. Co-registration with EDUC 450 required. ~~(10 or 13)~~ **(10-13)**

GERMAN
Type 2 – Modify major, minor, and courses *Fall 2019*

Catalog

All GERM-prefixed courses are taught in German, unless otherwise noted in the course catalog and the Banner online course schedule.

Major in German

~~*A minimum of 36 semester hours beyond GERM 101-102, including:*~~
- ~~GERM 201-202, 301-302, 411-412, 423-424, 499~~

36 semester hours ***from regular program offerings or approved study-away programs***

- **Minimum proficiency through GERM 202**
- **GERM 301, 424, and 499**
- **At least 12 semester hours must be taken in GERM-prefixed courses listed in the PLU course schedule**
- **A maximum of two GERM-prefixed English-taught courses (not including GERM 499) will count towards the GERM major**
- **Students will typically begin the GERM major in GERM 101 or 201; any students placing beyond GERM 202 will have no more than 8 semester hours waived towards their 36 required semester hours for the major. Students who place beyond GERM 202 will begin the major with GERM 301. Students with any previous German language background will begin their German studies as determined by the results of their German placement exams.**

Minor in German

20 semester hours~~, taught in German,~~ from regular program offerings or approved study-away programs.

- **Minimum proficiency through GERM 202**
- **GERM 301 or 331**
- **At least 12 semester hours must be taken in GERM-prefixed courses listed in the PLU course schedule**
- **A maximum of one GERM-prefixed English-taught course will count towards the GERM minor**
- **Students will typically begin the GERM minor in GERM 101 or 201; any students placing beyond GERM 202 will have no more than 8 semester hours waived towards their 20 required semester hours for the minor. Students who place beyond GERM 202 will begin the minor with GERM 301. Students with any previous German language background will begin their German studies as determined by the results of their German placement exams.**

- ~~12 semester hours must be in German courses taught by PLU faculty.~~
- ~~Students with previous German instruction must take the German Language Placement survey prior to enrollment in the program.~~

Courses

GERM 190: FYEP190: First Year Inquiry

A four-credit seminar to introduce students to the methods and topics of study within a particular academic discipline or field. Students practice the academic skills that are at the center of the General Education Program. **Taught in English.** (4)

GERM 365: Nazi Culture – A

This course provides avenues, via the study of culture, for engaging with the challenging historical context of the so-called Third Reich. Students will be introduced to and critically examine programs for cultural indoctrination, visual art and literary texts, brutalist architecture, the appropriation of Norse and Germanic mythology, the "Nordic/Aryan" ideal at the heart of Nazi race theory, and propaganda films that sought to infiltrate citizens' consciousness, erode democratic values, and inform everyday life under the Nazi regime. Seminal texts and films will introduce students to the fundamental features of this dehumanizing time, allowing them to better apprehend the cultural products that will make up the core of the course, which concludes with comparative treatments of fascist/neo-fascist movements in the United States. **Taught in English.** (4)

GERM 424: Topics in German Literature and Culture ~~II~~ - C, LT
An opportunity to pursue an in-depth study of a specific aspect or topic in German-language literature and culture. May be repeated for credit with different topic. Prerequisite: GERM ~~302~~ **301**. (4)

PHILOSOPHY
Type 2 – Modify major, courses, course offerings *Fall 2019*

Catalog

Bachelor of Arts Degree

Major in Philosophy
Minimum of 32 semester hours, including:

- PHIL 233, 499A, 499B
- **Two courses from: PHIL 311, 312, 313, 314**
- ~~One course from: PHIL 331, 333, 334~~
- ~~One course from: PHIL 335, 336, 338~~
- **Four additional PHIL lower- or upper-division courses (16 semester hours)**
- GLST 325 may count as an elective credit toward the major.
- On approval of the department, one course (4 semester hours) in another field of study may be used for a double major in philosophy if it has a direct relationship to the student's philosophy program.
- Transfer students will normally take 16 or more of their 32 hours at PLU.
- Students intending to major in philosophy should formally declare this with the department chair and choose a departmental advisor.
- Students must be a declared philosophy major in order to be eligible for departmental scholarships.

Courses

PHIL 311: Topics in Ethics – PH
Examination of an ethical issue or question in light of one or more of the major currents in Western ethical philosophy. May be repeated for credit once with a different topic. Prerequisite: sophomore standing. (4)

PHIL 312: Topics in Philosophy and Politics - PH
Examination of a political issue or question in the light of one or more of the major political theories in the Western philosophical tradition. May be repeated for credit once with a different topic. Prerequisite: sophomore standing. (4)

PHIL 313: Topics in Philosophy, Science, and Religion – PH
Exploration of selected topics in philosophy of science, philosophy of religion, or the relationship between science and religion. May be repeated once for credit once with a different topic. Prerequisite: sophomore standing. (4)

PHIL 314: Topics in the History of Philosophy – PH
Study of selected topics or historical figures in the history of philosophy. May be repeated for credit once with a different topic. Prerequisite: sophomore standing. (4)

PHIL 327: Environmental Philosophy - PH
Examines concepts such as wilderness, nature/natural, and consciousness. This examination leads to consideration of issues such as resource distribution and consumption, obligations to future generations and other than human life. Specifically the preservation of endangered species, animal experimentation, farming, resource consumption, pollution, and population growth will be addressed. **Prerequisite: sophomore standing.** (4)

PHIL ~~331~~ **231**: Ancient Philosophy - PH
The development of philosophical thought and methods from the Pre-Socratic period to the end of the fourth century CE. Emphasis on Plato and Aristotle. (4)

~~PHIL 333: Early Modern Philosophy - PH~~
~~PHIL 334: Kant and the Nineteenth Century - PH~~
~~PHIL 335: The Analytic Tradition - PH~~
~~PHIL 336: Pragmatism and American Philosophy - PH~~
~~PHIL 338: Continental Philosophy - PH~~
~~PHIL 350: God, Faith, and Reason - PH~~

PHIL 353: Topics in Philosophy - PH
Study of selected topics in philosophy, such as value theory, science, metaphysics, epistemology, feminism, film or health care. May be repeated for credit **once with a different topic**. **Prerequisite: sophomore standing.** (2 to 4)

PHYSICS

Type 2 – Modify Applied Physics major *Fall 2019*

Bachelor of Science Degree - Applied Physics Major
70 semester hours

Also available is a major in applied physics, which includes a substantial selection of courses from engineering to provide a challenging and highly versatile degree. Applied physics can lead to research or advanced study in such areas as robotics—with application in space exploration or joint and limb prosthetics; growth of single-crystal metals, which would be thousands of times stronger than the best steels now available; mechanics of material failure, such as metal fatigue and fracture; turbulence in fluid flow; photovoltaic cell research for solar energy development; or applications of fluid flow and thermodynamics to the study of planetary atmospheres and ocean currents. While many applied physics graduates pursue professional careers in industry immediately after graduation from PLU, the program also provides excellent preparation for graduate study in nearly all fields of engineering.

- PHYS 153, 154, 163, 164, 223, 331, 334, 354, 356, 499A, 499B
- CSCI 131
- Plus: four courses, one of which must be upper division, selected from:
    - CSCI ~~231,~~ 302, 331, ~~345~~
    - Strongly Recommended: CSCI 331
    - MATH 331**, MATH/STAT 242**
    - PHYS 221, 240, 332, 333, 336, 401
    - CHEM 341 may be substituted for PHYS 333
    - CHEM 342 may be substituted for PHYS 401
- Required supporting courses:
    - CHEM 115; CSCI 133 or 144; MATH 151, 152, 253

PSYCHOLOGY

Type 2 – Add permanent non-GenEd course *Summer 2019*

PSYC 337: Culture and Health
This course explores the role of culture on health issues around the world from a psychological perspective. Theories from health psychology, and secondarily from medical anthropology and medical sociology, are used to consider how culture impacts health behaviors and how behaviors and services might be improved. Major topics include mental and physical health, treatment, health services, and health promotion. Prerequisite: PSYC 101, SOCI 101, or ANTH 102. (4)

Curriculum Changes for Information Only

Deletions are indicated by ~~strikethrough~~ | Additions are indicated in **bold**

BIOLOGY

Type 1 – Change course title and description *Fall 2019*

BIOL 352: Comparative **Vertebrate** Anatomy

~~Evolutional history of the vertebrate body, introduction to embryology, and extensive consideration of the structural and functional anatomy of vertebrates. Includes laboratory dissections following a systems approach.~~ **An evolutionary approach to the study of structural and functional relationships in the vertebrate body. Includes examination and dissection of major organ systems with analysis of similarities and differences across groups to assess the significance of adaptations and explore the historical and present diversity of vertebrate morphology.** ~~Mammals are featured plus~~ **S**ome observation of and comparison with human cadavers. Prerequisite: BIOL 226. (4)

CHEMISTRY

Type 1 – Change course title and description *Fall 2019*

CHEM 456: Polymers and Biopolymers

A course presenting the fundamentals of polymer synthesis, solution thermodynamic properties, molecular characterization, molecular weight distribution, and solution kinetics. Free radical, condensation, ionic, and biopolymer systems, with emphasis on applications. ~~The one-credit laboratory examining polymer synthesis through experiments is optional.~~ Prerequisite: CHEM 341; prerequisite or corequisite: CHEM 342. (3)

CONTINUING EDUCATION

Recent Course Offerings *Fall 2018, J-Term 2019*

EDUC 970M: Fully Wired - Understanding and Empowering Adolescents (693)
EDUC 973D: The Challenging Child: Strategies for the Early Childhood Classroom (5838)
EDUC 973T: Engaging Parents for Student Success (5844)
EDUC 974F: Going Above and Beyond Academics for English Learners (5751)
EDUC 976K: Boosting Social Emotional Learning through Sport and Physical Ed. (5055)
EDUC 976L: Social Emotional Learning: Strengthening Hearts and Minds (5031)

EDUC 976M: Vocabulary Instruction & Word Learning - Secondary Content Areas (5065)
EDUC 976N: Digital Citizenship in the Classroom (806)
EDUC 976P: Growing Gifts: Stories, Supports & Strategies for Teachers Gifted Ed. (5066)
EDUC 976Q: Move, Grow, Play! Using Play to Teach and Learn (5057)
EDUC 976R: Teaching Students with Interrupted Formal Ed: Compassion is Key (5020)
EDUC 976U: Improving Outcomes for Students in Poverty: The Difference Makers (5077)
EDUC 976V: Impactful Coaching: Reflection, Support, Growth (5084)
EDUC 976W: Curriculum Design & Instruction Strategy: Education's Dynamic Duo (5086)

ECONOMICS

Type 1 – Change course prerequisite *Fall 2019*

ECON 102: Principles of Macroeconomics - SO
Introduces the economy as a whole and major issues such as inflation, unemployment, economic growth, and international trade. ~~Prerequisite: ECON 101 or 111~~ (4)

INNOVATION STUDIES

Type 1 – Update catalog listing and formatting *Fall 2019*

Program Requirements
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Elective
4 semester hours

Select at least one course from the following list of electives for deeper study in the process of innovation, creativity, problem solving, and related proficiencies:

- ARTD 202: 3D Design (4)
- ARTD 310: Graphic Design 3 (4)
- BUSA 340: Non-Profit Management (4)
- BUSA 358: Entrepreneurship (4)
- COMA 361: Public Relations: Principles and Practices (4)
- CSCI 133: Introduction to Computational and Data Science (4)
- CSCI 144: Introduction to Computer Science (4)
- ECON 325: Industrial Organization and Public Policy (4)
- ECON 386: Evolution of Economic Thought (4)

- ENGL 323: Writing for Public and Professional Settings (4)
- HIST 247: ~~American Business and Economic History, 1877-Present~~ (4)
- HIST 247: **U.S. Capitalism: From Railroads to Netflix** (4)
- PHIL 225: Business Ethics (4)
- POLS 345: Government and Public Policy (4)
- PSYC 148: Minds, Brains, and Computer: Introduction to Cognitive Science (4)
- PSYC 448: Cognitive Psychology (4)

Innovation Seminar
4 semester hours

- INOV 350: Innovation Seminar (4)
~~Hands-on seminar for Innovation Studies minors that exposes students to the conceptual, ethical, and logistic issues involved in developing and implementing an innovative idea, process, product, or campaign. Students form teams; analyze artistic, technological, and entrepreneurial factors; consider issues such as feasibility and market timing, and then present their proposal to the PLU community. Prerequisite: Junior status and permission of instructor. (4)~~

MUSIC
Type 1 – Change course title and description *Fall 2019*

MUSI 362: ~~University Men's~~ **Knights** Chorus - AR
The study and performance of repertoire for ~~men's~~ **tenor and bass** voices. Emphasis on individual vocal and musical development. (1)