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Individual Course Change

[FISH - 474 - 24-2677 - Course Change/Reactivation Form](#) - Proposed change: Change course title from "Conservation Genetics of Fish and Wildlife" to "Conservation Genomics of Fish and Wildlife" to align with contemporary terminology in the field.

New CBMP Critical Race, Gender and Sexuality Studies BA + Environment & Community MA

[BA in Critical Race, Gender, and Sexuality Studies + MA in Environment and Community - 23-2336](#).
Existing CBMP being submitted with the Environment and Community elevation.

Environmental Science and Management Program Changes

[24-2489 - Environmental Science and Management, Environmental Planning and Policy, B.S. - Change Concentration/Emphasis Requirements](#) - Combine the 'Ecology and Management' group of restricted electives (choose 1) and 'Approved Electives' group (choose 1) into a combined list of restricted electives called "Approved Upper Division Electives" with a note that says: Complete two courses from the preapproved list below in consultation with major advisor. Substitutions must be pre-approved by major advisor. The two elective courses must add up to at least 6 units. This change to the ESM Planning and Policy concentration will give students more flexibility with their upper division electives, by streamlining two groups of restricted electives into a single group of restricted electives. NB: In the original proposal that the Associate Dean approved, GEOL 308 was listed as an elective; however, GEOL 308 will not be offered regularly, so ESM has swapped GEOL 303 into the list rather than GEOL 308. GEOL approves this swap.

[24-2508 - Environmental Science and Management, Geospatial Science Concentration, B.S. - Change Concentration/Emphasis Requirements](#) - Add GSP 272 to lower division requirements as an alternative ("or") to GSP 270 to provide students more course options and decrease time to graduation.

[24-2510 - Environmental Science and Management, Ecological Restoration Concentration, B.S. - Change Concentration/Emphasis Requirements](#) - Replace graduate-level WSHD 558 (advanced climate change and land use) with undergrad level WSHD 458 (Climate Change and Land Use) in the list of Approved restricted electives. The WSHD 558 was a typo in the curriculum, so this will fix the error.

[24-2507 - Geospatial Analysis Minor - Change Minor Requirements](#) - Add GSP 272 as an alternative ("or") to GSP 270 to provide students more course options and decrease time to graduation.

Mathematics Minor Change

[Mathematics Minor - Change Minor Requirements - 23-2418](#): 1. Change the requirement "MATH 245" to "MATH 210 or MATH 245." 2. Change minimum number of upper division units from 6 to 7. First

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change makes the minor more accessible to CHEM, ENGR, and PHYX majors; second change is a more honest description of the requirements.

Mechanical Engineering Program Change

[Mechanical Engineering, B.S. - Change Core Requirements - 23-2528](#) - **Proposed Changes:** 1) Remove ENGR 322 (4 units); 2) Add one unit to each of these courses: ENGR 317, ENGR 417, ENGR 464, and ENGR 430 (new course number for ENGR 430 will be ENGR 340); 3) Remove the "Life Science Elective" requirements from the 'Major Elective Program' requirements (reduces major elective requirement by 3 units, thereby reducing required major units from 96 to 93); 4) Add CS 444 to the list of "Engineering Design List B" electives; 5) Change a few prerequisites for greater flexibility; and 6) Change ENGR 465 to 365.

[ENGR - 210 - Solid Mechanics: Statics - Course Change - 23-2527](#) - Add PHYX 109 as a prerequisite. This was accidentally left off of the last course change proposal. Updated prerequisites will be MATH 109 or MATH 109C or Calculus I and PHYX 109.

[ENGR - 317 - Dynamic Systems and Vibrations - Course Change - 23-2535](#) - **Proposed Changes:** Increase units from 3 to 4 by adding one lecture hour per week (previously 2 hours per week); increasing prereq content taught in this UD course. Change prerequisites: remove MATH 210, ENGR 205, and PHYX 211; add ENGR 326 (Prerequisites will be: ENGR 210 and ENGR 326).

[ENGR - 330 - Mechanics and Science of Materials - Course Change - 23-2538](#) **Proposed Changes:** Change MATH 210 from a prerequisite to a corequisite for greater flexibility, Prerequisites will be CHEM 109 and ENGR 210; corequisite will be MATH 210.

[ENGR - 331 - 23-2539 - Course Change - Thermodynamics and Energy Systems I](#) **Proposed Changes:** Add ENGR 205 as prereq; change MATH 210 from prereq to coreq. Updated requirements will be PHYX 109 and ENGR 205 as prerequisites and CHEM 109 and MATH 210 as corequisites.

[ENGR - 417 - Heat and Mass Transport Processes - Course Change - 23-2529](#) - **Proposed Changes:** 1) Increase units from 3 to 4 by adding one lecture hour per week to cover previous prerequisite content in this upper division course. 2) Remove ENGR 322 as prerequisite and change ENGR 326 from a corequisite to a prerequisite; updated prerequisites will be ENGR 326, ENGR 331 and ENGR 333.

[ENGR - 421 - Advanced Numerical Methods for Engineers I - Course Change - 23-2542](#) - **Proposed Changes:** Remove ENGR 313 and ENGR 326 as prerequisites; add ENGR 416 OR ENGR 417 as prerequisites. Updated prerequisites will be ENGR 416 or ENGR 417.

[ENGR - 430 - Manufacturing I - Course Change - 23-2540](#) - **Proposed Changes:** 1) Increase units from 3 to 4 via one additional lecture hour per week to cover previously-prerequisite content; 2) Change prerequisites **from** ENGR 123 and ENGR 2330 **to** [ENGR 123](#), [ENGR 205](#) and [ENGR 330](#); removing major-specific prereq; 3) Change course number from ENGR 430 to [ENGR 340](#).

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[ENGR - 433 - Advanced Manufacturing Processes - Course Change - 23-2543](#) - **Proposed Changes:**

Remove ENGR 430 corequisite (this course is changing number to ENGR 340) and add ENGR 340 (4 units) (previously ENGR 430, 3 units) as a prerequisite. Also removing prereq for majors only.

[ENGR - 464 - Measurements, Instrumentation, and Control - Course Change - 23-2544](#) - **Proposed**

Changes: 1) Increase units from 3 to 4 via one additional lecture hour per week to cover previously-prerequisite content. 2) Remove ENGR 322 and ENGR 326 prerequisites (prerequisites will be only ENGR 317 and PHYX 315); remove majors-only prereq.

[ENGR - 465 - Machine Design - Course Change - 23-2541](#) - **Proposed Changes:** 1) Remove prerequisites ENGR 322, ENGR 317, and ENGR 226; add ENGR 340 (4 units)(changed from ENGR 430, 3 units); remove majors-only prereq; sole prerequisite will be ENGR 340. 2) Change the course number from ENGR 465 to ENGR 365.

[ENGR - 468 - Materials Processes - Course Change - 23-2545](#) - **Proposed Changes:** Remove prerequisite ENGR 210; add prerequisite ENGR 205; remove majors-only prereq. Updated prerequisites will be ENGR 205 and ENGR 330.

Philosophy Program Change

[24-2675 - Philosophy, B.A. - Change Core Requirements](#) - **Proposed Changes:** Add two new Philosophy courses--PHIL 305W - Bioethics and PHIL 308 - Philosophy of Technology--to UD elective options. No change to major unit requirements. **Rationale:** These two classes address emerging and conflicted issues in the arena of science and technology, from the philosophical perspective. They provide students in a polytechnic context to reflect critically on the science- and technology-based futures that they are preparing for.

[PHIL - 305W - 22-2083 - New Course - Bioethics](#). New UD Arts/Humanities (Area 3) course. **Course Description:** A close study of issues in medical practice, research and technology. Possible topics include abortion, cloning, surrogacy, the responsibilities of service providers, and other issues of health justice. **Rationale:** Insofar as we are now a polytechnic university, it is important to offer curriculum that interrogates moral and ethical issues in relation to technology as it bears on health care, reproductive care, and end-of-life care. This course is designed to serve that purpose.

[PHIL - 308 - 21-1658 - New Course - Philosophy of Technology](#). New UD Arts/Humanities (Area 3) course. **Course description:** Critical examination of philosophical issues surrounding the concept of technology, such as: The nature of technology, Does/can technology dehumanize? Ethical, social and political issues about technology and political subjects. **Rationale:** The proposal represents the Philosophy Department's effort to provide curricula that supports the mission of the polytechnic.

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