MEMORANDUM

Faculty Senate approved September 23, 2021

TO: Deans and Chairs
FROM: Becky Bitter, Sr. Assistant Registrar
DATE: September 1, 2021
SUBJECT: Minor Change Bulletin No. 1

The courses listed below reflect the minor curricular changes approved by the catalog editor since approval of the last Minor Change Bulletin. The column to the far right indicates the date each change becomes effective.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Number</th>
<th>Revise</th>
<th>Drop</th>
<th>Current</th>
<th>Proposed</th>
<th>Effective Date</th>
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</thead>
<tbody>
<tr>
<td>AMDT</td>
<td>417</td>
<td>Revise</td>
<td>[DIVR] [M] Multicultural Perspectives on the Body and Dress 3 Course Prerequisite: 6 credits [SSCI]; junior standing. Engagement in multidisciplinary approaches that explore the social importance of the body, gender and dress. Typically offered Fall.</td>
<td>[DIVR] [M] Multicultural Perspectives on the Body and Dress 3 Course Prerequisite: Junior standing. Engagement in multidisciplinary approaches that explore the social importance of the body, gender and dress. Typically offered Fall.</td>
<td>8-21</td>
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<tr>
<td>AMDT / WGSS</td>
<td>422</td>
<td>Revise</td>
<td>[DIVR] Fat Studies 3 Course Prerequisite: Junior standing. Examination of weight-based oppression as a social justice issue with other systems of oppression based on gender, race, class, age, sexual orientation, and ability. (Crosslisted course offered as AMDT 422, WOMEN ST 422). Typically offered Summer Session.</td>
<td>[DIVR] Fat Studies 3 Course Prerequisite: Junior standing. Examination of weight-based oppression as a social justice issue with other systems of oppression based on gender, race, class, age, sexual orientation, and ability. (Crosslisted course offered as AMDT 422, WGSS 422. WGSS 422 formerly offered as WOMEN ST 422.) Typically offered Summer Session.</td>
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<tr>
<td>AMER ST / CES / ENGLISH / HISTORY / WGSS</td>
<td>216</td>
<td>Revise</td>
<td>Introduction to American Cultural Studies 3 Introduction to the interdisciplinary study of American cultures and the field of American studies. (Crosslisted course offered as AMER ST 216, CES 216,</td>
<td>Introduction to American Cultural Studies 3 Introduction to the interdisciplinary study of American cultures and the field of American studies. (Crosslisted course offered as AMER ST 216, CES 216,</td>
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<td>ANTH 404</td>
<td>[CAPS] The Self in Culture 3</td>
<td>Course Prerequisite: One course at the 100-level and one course at the 200-level in any of the following subjects: AMER ST, ANTH, CES, COM, ENGLISH, FINE ART, H D, HISTORY, HUMANITY, PHIL, POL S, PSYCH, SOC, or WOMEN ST; junior standing. Survey of anthropological theories exploring self in Western/non-Western cultures through dreams, history, and human development. Typically offered Fall and Spring.</td>
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<td>ANTH / WGSS 316</td>
<td>[DIVR] Gender in Cross Cultural Perspective 3</td>
<td>Cross-cultural examination of the status and roles of women and men, sexuality and marriage, and folk concepts of sexual anatomy in traditional cultures in Western science; concepts of nature and culture are explored through a variety of perspectives. (Crosslisted course offered as ANTH 316, WOMEN ST 316). Recommended preparation: Sophomore standing; ANTH 101, PSYCH 105, SOC 101, or WOMEN ST 101 or 201. Typically offered Fall, Spring, and Summer.</td>
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<td>ASTRONOM 345</td>
<td>Principles of Astronomy 3</td>
<td>Course Prerequisite: MATH 172 or 182; PHYSICS 202 or 206. Planets, the sun, stars, and galaxies; current topics in astrophysics and planetary research. Typically offered Fall.</td>
<td>Principles of Astronomy 3 Course Prerequisite: 4 credits of PHYSICS 202, or PHYSICS 202 and 212, or PHYSICS 206; MATH 172 or 182. Planets, the sun, stars, and galaxies; current topics in astrophysics and</td>
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<td>ASTRONOM 435</td>
<td>Revise</td>
<td>Astronomy and Astrophysics I</td>
<td>3 Course Prerequisite: MATH 172 or 182; PHYSICS 202 or 206. Planets, solar systems, and stars. Typically offered Spring.</td>
<td>Astronomy and Astrophysics I 3 Course Prerequisite: 4 credits of PHYSICS 202, or PHYSICS 202 and 212, or PHYSICS 206; MATH 172 or 182. Planets, solar systems, and stars. Typically offered Spring.</td>
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<tr>
<td>ASTRONOM 436</td>
<td>Revise</td>
<td>Astronomy and Astrophysics II</td>
<td>3 Course Prerequisite: MATH 172 or 182; PHYSICS 202 or 206. Exotic objects, galaxies, and cosmology. Typically offered Spring.</td>
<td>Astronomy and Astrophysics II 3 Course Prerequisite: 4 credits of PHYSICS 202, or PHYSICS 202 and 212, or PHYSICS 206; MATH 172 or 182. Exotic objects, galaxies, and cosmology. Typically offered Spring.</td>
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<td>B A 204</td>
<td>Revise</td>
<td>Spreadsheets</td>
<td>1 Course Prerequisite: Sophomore standing. Enrollment not allowed if credit already earned for B A 212. Introduction to spreadsheets; basics for using spreadsheets for data analysis and to support decision-making. Credit not granted for both BA 204 and 212. Typically offered Fall, Spring, and Summer.</td>
<td>Spreadsheets 1 Course Prerequisite: Completed 27 semester credits. Enrollment not allowed if credit already earned for B A 212. Introduction to spreadsheets; basics for using spreadsheets for data analysis and to support decision-making. Credit not granted for both BA 204 and 212. Typically offered Fall, Spring, and Summer.</td>
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<tr>
<td>B A 212</td>
<td>Revise</td>
<td>Spreadsheets, Data Visualization, and Decision Analysis</td>
<td>3 Course Prerequisite: Sophomore standing. Enrollment not allowed if credit already earned for B A 204, 205, or 206. Introduction to basics for using spreadsheets for data analysis and to support decision-making; principles and techniques of representing data visually in graphs, charts, and diagrams; communicating data-based results effectively; skeptical interpretation of visually represented findings when making decisions; techniques for making informed and logical decisions in a business context; introduction</td>
<td>Spreadsheets, Data Visualization, and Decision Analysis 3 Course Prerequisite: Completed 27 semester credits. Enrollment not allowed if credit already earned for B A 204, 205, or 206. Introduction to basics for using spreadsheets for data analysis and to support decision-making; principles and techniques of representing data visually in graphs, charts, and diagrams; communicating data-based results effectively; skeptical interpretation of visually represented findings when making decisions; techniques for making informed and logical decisions in a business context; introduction</td>
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### B A 579
- **Revise** MBA Capstone V 1-4
- **Course Prerequisite:** Admission to the MBA program. Analyze, evaluate, and recommend management actions for a specific strategic business project (for an existing organization or new venture).

### BIOLOGY / WGSS 307
- **Revise** [DIVR] Biology of Women 3
  - **Course Prerequisite:** BIOLOGY 102 or 106. Biological basis of sex and its relationship to body function, women and health care, and the impact of social and cultural perspectives on the experience of being female. (Crosslisted course offered as BIOLOGY 307, WOMEN ST 307). Typically offered Spring.

### CE 211
- **Revise** Statics 3
  - **Course Prerequisite:** MATH 172; 4 credits of PHYSICS 201; or PHYSICS 201 and 211; or MATH 182, or concurrent enrollment; or PHYSICS 205 or concurrent enrollment.
  - Engineering mechanics concepts; force systems; static equilibrium; centroids, centers of gravity; shear and moment diagrams; friction; moments of inertia. Typically offered Fall, Spring, and Summer.
  - Cooperative: Open to UI degree-seeking students.

### CE 401
- **Revise** Climate Change Science and Engineering 3
  - **Course Prerequisite:** CHEM 105; MATH 172; PHYSICS 201; admitted to any major.
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<th>Course Code</th>
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<th>Course Description</th>
<th>Prerequisites</th>
<th>Credits</th>
<th>Offered</th>
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| CE 402      | Applied Meteorology | 3 Course  
Atmospheric physical behavior across spatial scales linking concepts of meteorological phenomena to engineering design principles. Credit not granted for both CE 402 and CE 502. Offered at 400 and 500 level. Typically offered Fall. Cooperative: Open to UI degree-seeking students. | Prerequisite: MATH 172 or 182; PHYSICS 201; admitted to any major. Atmospheric physical behavior across spatial scales linking concepts of meteorological phenomena to engineering design principles. Credit not granted for both CE 402 and CE 502. Offered at 400 and 500 level. Typically offered Fall. Cooperative: Open to UI degree-seeking students. | 3 | 8-21 |
| CES / WGSS 411 | Asian Pacific American Women | 3 Course  
Intersection of ethnicity, race, class, gender and sexuality in the lives of Asian Pacific American women. (Crosslisted course offered as CES 411, WOMEN ST 411.) | Prerequisite: CES or WOMEN ST course; junior standing. Intersection of ethnicity, race, class, gender and sexuality in the lives of Asian Pacific American women. (Crosslisted course offered as CES 411, WOMEN ST 411.) | 3 | 8-21 |
| CHEM 331    | Physical Chemistry | 3 Course  
Concepts of physical chemistry; basic thermodynamics; free energy and entropy; phase equilibria; properties of solutions of electrolytes and non-electrolytes. Typically offered Fall. | Prerequisite: MATH 273 or 283 with a C or better; PHYSICS 202 with a C or better. Concepts of physical chemistry; basic thermodynamics; free energy and entropy; phase equilibria; properties of solutions of electrolytes and non-electrolytes. Typically offered Fall. | 3 | 8-21 |
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<th>Prerequisites</th>
<th>Semester Availability</th>
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<tr>
<td>CHEM 332</td>
<td>Physical Chemistry 3 Course</td>
<td>Prerequisite: MATH 273 with a C or better; MATH 220 with a C or better; PHYSICS 202 with a C or better. Elementary quantum theory; molecular structure and spectra; bonding theory; reaction rates; photochemistry and radiation chemistry; energy states and statistical thermodynamics. Typically offered Spring.</td>
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<td>CHEM 338</td>
<td>Physical Chemistry for Chemical Biology 3 Course</td>
<td>Prerequisite: CHEM 345 with a C or better; MATH 140 with a C or better; MATH 171 with a C or better; PHYSICS 101 with a C or better, or PHYSICS 102 with a C or better. The modern tools and insights of physical chemistry are covered by interconnecting these fundamental concepts with key biological phenomena.</td>
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<tr>
<td>CHEM 401 / 501</td>
<td>Modern Inorganic Chemistry 3 Course</td>
<td>Prerequisite: CHEM 345 with a C or better. Properties of substances; periodic systems; oxidation-reduction and acid-base characteristics interpreted on the basis of atomic and molecular structure. Recommended preparation: CHEM 220. Typically offered Fall.</td>
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<td>COM / WGSS 464</td>
<td>Gender and the Media 3 Course</td>
<td>Prerequisite: Admitted to any major; sophomore standing. How news and entertainment media shape and reinforce societal expectations of gender; consideration of race,</td>
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<td>CRM J / WGSS</td>
<td>403</td>
<td>Revise</td>
<td>[CAPS] Violence Toward Women</td>
<td>3 Course Prerequisite: Junior standing. Violence toward women and its relationship to broader social issues such as sexism and social control. (Crosslisted course offered as CRM J 403, WOMEN ST 403.) Typically offered Fall, Spring, and Summer.</td>
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<td>CST M</td>
<td>332</td>
<td>Revise</td>
<td>Building Science I</td>
<td>3 Course Prerequisite: PHYSICS 101 with a C or better; admitted major in Architectural Studies or Construction Management. Mechanical systems for buildings; building heating, ventilating, and air conditioning systems, heat flow concepts. Typically offered Fall.</td>
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<td>E E</td>
<td>261</td>
<td>Revise</td>
<td>Electrical Circuits I</td>
<td>3 Course Prerequisite: MATH 315 with a C or better or concurrent enrollment; PHYSICS 202 with a C or better. Application of fundamental concepts of electrical science in linear circuit analysis; mathematical models of electric components and circuits. Typically offered Fall and Spring.</td>
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<tr>
<td>E E</td>
<td>311</td>
<td>Revise</td>
<td>Electronics</td>
<td>3 Course Prerequisite: E E 261 with a C or better; admitted to the major</td>
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<td>E E 321</td>
<td>Revise Electrical Circuits II 3</td>
<td>Prerequisite: E E 261 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. State space analysis, Laplace transforms, network functions, frequency response, Fourier series, two-ports, energy and passivity. Typically offered Fall and Spring.</td>
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<td>Revise Electrical Circuits II 3</td>
<td>Prerequisite: E E 261 with a C or better; admitted to the major or minor in Electrical Engineering, Computer Science, or Computer Engineering. State space analysis, Laplace transforms, network functions, frequency response, Fourier series, two-ports, energy and passivity. Typically offered Fall and Spring.</td>
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<tr>
<td>E E 324</td>
<td>Revise [M] Fundamentals of Digital Systems 4 (3-3)</td>
<td>Prerequisite: E E 214 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Design and analysis of synchronous sequential machines; module and bit-slice devices; alternative architectures; system-level design; asynchronous sequential machines. Typically offered Fall.</td>
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<td>Revise [M] Fundamentals of Digital Systems 4 (3-3)</td>
<td>Prerequisite: E E 214 with a C or better; admitted to the major or minor in Electrical Engineering, Computer Science, or Computer Engineering. Design and analysis of synchronous sequential machines; module and bit-slice devices; alternative architectures; system-level design; asynchronous sequential machines. Typically offered Fall.</td>
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<tr>
<td>E E 331</td>
<td>Revise Electromagnetic Fields and Waves 3</td>
<td>Prerequisite: E E 261 with a C or better; E E 262 with a C or better or concurrent enrollment; MATH 315 with a C or better; PHYSICS 202 with a C or</td>
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<td>Revise Electromagnetic Fields and Waves 3</td>
<td>Prerequisite: E E 261 with a C or better; E E 262 with a C or better or concurrent enrollment; MATH 315 with a C or better; 4 credits of PHYSICS 202, or PHYSICS</td>
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<td>E E 334</td>
<td>Computer Architecture 3 (3-3)</td>
<td>Course Prerequisite: E E 234 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering.</td>
<td>Modern developments in digital system design, parallel structures, pipelining, input/output, high speed circuits, laboratory experience in digital system design; emphasis on CPU architecture. Typically offered Spring.</td>
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<td>E E 341</td>
<td>Signals and Systems 3</td>
<td>Course Prerequisite: E E 321 with a C or better; STAT 360 with a C or better or concurrent enrollment, or STAT 443 with a C or better or concurrent enrollment; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering.</td>
<td>Discrete and continuous-time signals, LTI systems, convolution, sampling, Fourier transform, filtering, DFT, amplitude modulation, probability applications. Typically offered Fall and Spring.</td>
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<td>E E 351</td>
<td>Distributed Parameter Systems 3</td>
<td>Course Prerequisite: E E 331 with a C or better; admitted to the major in Electrical Engineering,</td>
<td>Distributed Parameter Systems 3 Course Prerequisite: E E 331 with a C or better; admitted to the major or minor in Electrical Engineering,</td>
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<td>E E 352</td>
<td>Revise [M] Electrical Engineering Laboratory I 3 (1-6)</td>
<td>Course Prerequisite: E E 262 with a C or better; E E 311 with a C or better or concurrent enrollment; E E 321 with a C or better or concurrent enrollment; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Experiments in electrical circuits, measurements and electronics; principles of measurements and measuring instruments. Typically offered Fall and Spring.</td>
<td>E E 262 with a C or better; E E 311 with a C or better or concurrent enrollment; E E 321 with a C or better or concurrent enrollment; admitted to the major or minor in E E, Cpt S, Cpt E, or Software Engineering. Experiments in electrical circuits, measurements and electronics; principles of measurements and measuring instruments. Typically offered Fall and Spring.</td>
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<td>E E 361</td>
<td>Revise Electrical Power Systems 3</td>
<td>Course Prerequisite: E E 321 with a C or better; E E 331 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Power system hardware; transformers, and electromechanical machinery; introduction to power system operation. Typically offered Fall and Spring.</td>
<td>E E 321 with a C or better; E E 331 with a C or better; admitted to the major or minor in Electrical Engineering, Computer Science, Computer Engineering, or Software Engineering. Power system hardware; transformers, and electromechanical machinery; introduction to power system operation. Typically offered Fall and Spring.</td>
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<tr>
<td>E E 362</td>
<td>Revise Power System Laboratory I 3 (1-6)</td>
<td>Course Prerequisite: E E 262 with a C or better; E E 352 with a C or better; concurrent enrollment in E E 361; concurrent enrollment in E E 341; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Experiments in simulation,</td>
<td>E E 262 with a C or better; E E 352 with a C or better; concurrent enrollment in E E 361; concurrent enrollment in E E 341; admitted to the major or minor in E E, Cpt S, Cpt E, or Software Engineering. Experiments in simulation,</td>
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<td>E E 415</td>
<td>Design Project Management</td>
<td>(1-6) Course Prerequisite: E E 341 with a C or better and E E 361 with a C or better; or E E 334 with a C or better and CPT S 360 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Project scheduling/planning, technical writing, oral presentation skills, working in teams, TQC, TQM, market-driven organizations. Typically offered Fall and Spring.</td>
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<tr>
<td>E E 416</td>
<td>[CAPS] [M] Electrical Engineering Design</td>
<td>(1-6) Course Prerequisite: E E 415 with a C or better; ENGLISH 402 with a C or better, or concurrent enrollment, or ENGLISH 403 with a C or better, or concurrent enrollment; admitted to the major in E E, Cpt S, Cpt E or Cpt A; senior standing. Electrical engineering design of specific projects including design specification; written and oral presentations and reports. Typically offered Fall and Spring.</td>
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<tr>
<td>E E 431</td>
<td>RF and Microwave Circuits and Systems</td>
<td>Course Prerequisite: E E 311; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Design and implementation of RF/microwave modules and systems for telecommunications; microstrip,</td>
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<td>EE 432</td>
<td>RF Engineering for Telecommunications 4 (3-3)</td>
<td>EE 331; EE 341 with a C or better; STAT 360 with a C or better; STAT 443 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. System and propagation issues for wireless telecommunications; cellular, PCS, microwave, and satellite system analysis, design, measurement, and testing. Typically offered Fall.</td>
<td>RF Engineering for Telecommunications 4 (3-3)</td>
<td>EE 331; EE 341 with a C or better; STAT 360 with a C or better; STAT 443 with a C or better; admitted to the major or minor in Electrical Engineering, Computer Science, Computer Engineering, or Software Engineering. System and propagation issues for wireless telecommunications; cellular, PCS, microwave, and satellite system analysis, design, measurement, and testing. Typically offered Fall.</td>
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<tr>
<td>EE 434</td>
<td>ASIC and Digital Systems Design 3 (2-3)</td>
<td>EE 234 with a C or better; EE 321 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Application Specific Integrated Circuit and Digital System Design methods, semi-custom, full-custom, and field-programmable devices; digital system architectures, electronics, and tests. Typically offered Spring.</td>
<td>ASIC and Digital Systems Design 3 (2-3)</td>
<td>Course Prerequisite: E E 234 with a C or better; EE 321 with a C or better; admitted to the major or minor in Electrical Engineering, Computer Science, Computer Engineering, or Software Engineering. Application Specific Integrated Circuit and Digital System Design methods, semi-custom, full-custom, and field-programmable devices; digital system architectures, electronics, and tests. Typically offered Spring.</td>
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<td>EE 451</td>
<td>Digital Communication Systems 3</td>
<td>EE 341 with a C or better, STAT 360 with a C or better, or STAT 443 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Digital communication techniques;</td>
<td>Digital Communication Systems 3</td>
<td>Course Prerequisite: E E 341 with a C or better, STAT 360 with a C or better, or STAT 443 with a C or better; admitted to the major or minor in Electrical Engineering, Computer Science, Computer Engineering, or Software Engineering. Digital communication techniques;</td>
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<td>E E 464</td>
<td>Digital Signal Processing I 3</td>
<td>Performance of digital communication systems in noise; matched filter detection; quantization. Typically offered Spring. Cooperative: Open to UI degree-seeking students.</td>
<td>E E 341 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Discrete and fast Fourier transforms; Z-transform; sampling; discrete convolution; digital filter design; effects of quantization. Typically offered Fall.</td>
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<td>E E 466</td>
<td>VLSI Design 3</td>
<td>Very Large Scale Integrated circuit, system and physical design using CAD software; project specification, modeling, implementation, documentation and reporting. Typically offered Fall.</td>
<td>E E 234 with a C or better; admitted to the major in Electrical Engineering, Computer Science, Computer Engineering, or Software Engineering.</td>
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<tr>
<td>E E 476</td>
<td>Analog Integrated Circuits 3</td>
<td>Analysis and design of analog integrated circuits in CMOS and BiCMOS technologies; current mirrors, gain stages, operational amplifiers, frequency response, and compensation. Credit not granted for both E E 476 and E E 477.</td>
<td>E E 311 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering.</td>
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<td>E E 485</td>
<td>Electric Energy Distribution Systems</td>
<td>3 Course Prerequisite: E E 361 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Fundamentals of distribution systems engineering, distribution system modeling and analysis, distribution load flow analysis, voltage regulation, recent advances in distribution automation. Typically offered Spring.</td>
<td>Electric Energy Distribution Systems 3 Course Prerequisite: E E 361 with a C or better; admitted to the major or minor in Electrical Engineering, Computer Science, Computer Engineering, or Software Engineering. Fundamentals of distribution systems engineering, distribution system modeling and analysis, distribution load flow analysis, voltage regulation, recent advances in distribution automation. Typically offered Spring.</td>
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<tr>
<td>E E 486</td>
<td>Power Electronics</td>
<td>3 Course Prerequisite: E E 361 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Analysis and modeling of power electronics-based converters, steady state operation, converter topologies, non-ideal effects; power supplies; applications. Typically offered Spring. Cooperative: Open to UI degree-seeking students.</td>
<td>Power Electronics 3 Course Prerequisite: E E 361 with a C or better; admitted to the major or minor in Electrical Engineering, Computer Science, Computer Engineering, or Software Engineering. Analysis and modeling of power electronics-based converters, steady state operation, converter topologies, non-ideal effects; power supplies; applications. Typically offered Spring. Cooperative: Open to UI degree-seeking students.</td>
<td></td>
</tr>
<tr>
<td>E E 489</td>
<td>Introduction to Control Systems</td>
<td>3 Course Prerequisite: E E 341 with a C or better or concurrent enrollment; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. State variable models, system response, stability analysis, root locus analysis and design; frequency-response and state-space.</td>
<td>Introduction to Control Systems 3 Course Prerequisite: E E 341 with a C or better or concurrent enrollment; admitted to the major or minor in Electrical Engineering, Computer Science, Computer Engineering, or Software Engineering. State variable models, system response, stability analysis, root locus analysis and design; frequency-response and state-space.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Title Details</td>
<td>Prerequisites</td>
<td>Offered Times</td>
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<tr>
<td>EE 491</td>
<td>Performance of Power Systems</td>
<td>3 Course Prerequisite: E E 361 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Static and dynamic behavior of power systems, powerflow, and economic considerations. Typically offered Fall.</td>
<td>5-21</td>
<td></td>
</tr>
<tr>
<td>EE 492</td>
<td>Renewable Energy Sources</td>
<td>3 (2-3) Course Prerequisite: E E 361 with a C or better or concurrent enrollment; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Design of electrical generation plants using wind, solar and other renewable energy sources including technical, environmental and economic aspects. Typically offered Fall.</td>
<td>5-21</td>
<td></td>
</tr>
<tr>
<td>EE 493</td>
<td>Protection of Power Systems I</td>
<td>3 Course Prerequisite: E E 361 with a C or better; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering. Analysis and equipment fundamentals of power system protection; symmetrical components, fault calculations; fuses; and relays including burden calculations. Typically offered Spring.</td>
<td>5-21</td>
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</tr>
<tr>
<td>EE 494</td>
<td>Protective Relay Labs</td>
<td>3 (1-6) Course Prerequisite: E E 361 with a C or better; E E 493 with a C or better or concurrent enrollment; admitted to the</td>
<td>5-21</td>
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<tr>
<td>Course Code</td>
<td>496</td>
<td>Revise</td>
<td>Semiconductor Devices 3</td>
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<tr>
<td>Course Title</td>
<td>SEMICONDUCTOR DEVICES 3</td>
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<tr>
<td>Prerequisite</td>
<td>CHEM 105 or PHYSICS 202; admitted to the major in Electrical Engineering, Computer Science, or Computer Engineering.</td>
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<tr>
<td>Course Description</td>
<td>Equilibrium statistics of electrons and holes; carrier dynamics; p-n junctions, metal-semiconductor junctions, BJTs, Mosfets, solar cells, and LEDs. Typically offered Fall.</td>
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<td>Credits</td>
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<tr>
<th>Course Code</th>
<th>420 / 520</th>
<th>Drop</th>
<th>Contract Project Management 3</th>
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<tr>
<td>Course Title</td>
<td>CONTRACT PROJECT MANAGEMENT 3</td>
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<tr>
<td>Prerequisite</td>
<td>CHEM 105; 4 credits of PHYSICS 202, or PHYSICS 202 and 212; admitted to the major or minor in Electrical Engineering, Computer Science, Computer Engineering, or Software Engineering.</td>
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</tr>
<tr>
<td>Course Description</td>
<td>Contract project bids, proposals, contracts, project delivery/organization; estimating, scheduling, resource loading, project monitoring and controls, safety and quality. Credit not granted for both E M 420 and 520. Offered at 400 and 500 level. Typically offered Spring.</td>
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<tr>
<th>Course Code</th>
<th>555</th>
<th>Drop</th>
<th>Enterprise Resource Management 3</th>
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<tr>
<td>Course Title</td>
<td>ENTERPRISE RESOURCE MANAGEMENT 3</td>
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<tr>
<td>Prerequisite</td>
<td>--N/A--</td>
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<tr>
<td>Course Description</td>
<td>Focusing the flow of quality, timely products and cooperative supply chain operations and planning using simulation and effective enterprise resource management.</td>
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<td>Credits</td>
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<tr>
<th>Course Code</th>
<th>349</th>
<th>Revise</th>
<th>Principles of Solid State Devices 3</th>
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<tr>
<td>Course Title</td>
<td>PRINCIPLES OF SOLID STATE DEVICES 3</td>
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<tr>
<td>Prerequisite</td>
<td>CHEM 105; ECE 325 or concurrent enrollment; CHEM 105;</td>
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<tr>
<td>Course Description</td>
<td>Principles of Solid State Devices 3 Course Prerequisite: ECE 325 or concurrent enrollment; CHEM 105; 4</td>
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<td>1-22</td>
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<td>Course Description</td>
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16
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<th>Course Code</th>
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<th>Course Description</th>
<th>Offered</th>
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<tbody>
<tr>
<td>PHYSICS 202</td>
<td>4</td>
<td>Semiconductor theory; carrier diffusion and drift, direct and indirect energy materials, homo and heterojunctions, operations principles of bipolar junctions and MOS field effect transistors, metal-semiconductor contacts. Typically offered Fall.</td>
<td>credits PHYSICS 202, or PHYSICS 202 and 212. Semiconductor theory; carrier diffusion and drift, direct and indirect energy materials, homo and heterojunctions, operations principles of bipolar junctions and MOS field effect transistors, metal-semiconductor contacts. Typically offered Fall.</td>
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</tr>
<tr>
<td>ECE 421</td>
<td>3-4</td>
<td>Introduction to Solar Cells</td>
<td>Materials, structures, and devices used in renewable energy systems with the focus on solar cells. Typically offered Fall.</td>
<td>8-21</td>
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<tr>
<td>ENGLISH / WGSS 260</td>
<td>3</td>
<td>Rhetoric and Gender</td>
<td>Historical survey of women writers whose contributions distinguish them as rhetoricians of their time. (Crosslisted course offered as ENGLISH 260, WOMEN ST 260). Typically offered Spring.</td>
<td>8-21</td>
</tr>
<tr>
<td>ENGLISH / WGSS 308 / 306</td>
<td>3</td>
<td>[M] Introduction to Literary Criticism</td>
<td>Introduction to the systematic study of critical and theoretical approaches to literature; emphasis on problems of interpretation. (Crosslisted course offered as ENGLISH 308, WOMEN ST 306). Typically offered Fall and Spring.</td>
<td>8-21</td>
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<tr>
<td>ENGLISH / WGSS 309</td>
<td>3</td>
<td>Women Writers</td>
<td>Women's artistic and intellectual contributions to prose, fiction, drama, and poetry. (Crosslisted course offered as ENGLISH 309, WOMEN ST 309).</td>
<td>8-21</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Description</td>
<td>Prerequisite</td>
<td>Offered Terms</td>
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<tr>
<td>ENGLISH / WGSS 317</td>
<td>3</td>
<td>Gay and Lesbian Literature</td>
<td>typically offered Fall and Spring.&lt;br&gt;(Crosslisted course offered as ENGLISH 317, WOMEN ST 317.)</td>
<td>8-21</td>
</tr>
<tr>
<td>ENGLISH / WGSS 409</td>
<td>3</td>
<td>Women Writers in the American West</td>
<td>Prerequisite: Junior standing. Diversity of writings by women in the trans-Missouri West from the 1890s to the present.&lt;br&gt;(Crosslisted course offered as ENGLISH 409, WOMEN ST 409.)</td>
<td>Typically offered Fall.</td>
</tr>
<tr>
<td>ENGLISH / WGSS 482 / 382</td>
<td>3</td>
<td>American Literature: 1940-Present</td>
<td>Prerequisite: ENGLISH 302. Advanced study of major authors and movements from the period including O'Connor, Bellow, Salinger, Baldwin, Pynchon, Morrison, Tan, and Alexie.&lt;br&gt;(Crosslisted course offered as ENGLISH 482, WOMEN ST 382.)</td>
<td>Typically offered Fall and Spring.</td>
</tr>
<tr>
<td>FINE ART / WGSS 308</td>
<td>3</td>
<td>[M] Women Artists I</td>
<td>Women artists of the Middle Ages through the 18th century.&lt;br&gt;(Crosslisted course offered as FINE ART 308, WOMEN ST 308.)</td>
<td>Typically offered Fall.</td>
</tr>
<tr>
<td>FINE ART / WGSS 310</td>
<td>3</td>
<td>[M] Women Artists II</td>
<td>Women artists of the 19th to 20th century.&lt;br&gt;(Crosslisted course offered as FINE ART</td>
<td>8-21</td>
</tr>
<tr>
<td>FINE ART</td>
<td>555</td>
<td>Revise</td>
<td>Critical Practices 9 (4–10)</td>
<td>May be repeated for credit; cumulative maximum 36 hours. Studio practice, critical analysis of the student's own and others' work, investigation of critical theory and visual culture through display and making art via a variety of disciplines. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.</td>
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<tr>
<td>FS</td>
<td>429</td>
<td>Revise</td>
<td>Dairy Processing 3 Course Prerequisite: MBIOS 303 or CHEM 370; PHYSICS 101. Basic dairy chemistry, microbiology, and processing from cow to consumer; dairy quality, safety, and sanitation; milk components, fluid milk, concentrated milk, cream, butter, ice cream, fermented milk, cheese, and dairy powders. Credit not granted for both FS 429 and FS 529. Recommended preparation: FS 110 or VIT ENOL 113. Offered at 400 and 500 level. Typically offered Fall. Cooperative: Open to UI degree-seeking students.</td>
<td></td>
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<tr>
<td>FS</td>
<td>432</td>
<td>Revise</td>
<td>Food Engineering 3 Course Prerequisite: FS 303; PHYSICS 101. Food engineering for improving the efficiency of food processing operations and quality processed food; heat transfer, stream, air-vapor mixtures, refrigeration and fluid flow. Typically offered Spring. Cooperative: Open to UI degree-seeking students.</td>
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<td>Course Code</td>
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<tr>
<td>HISTORY / WGSS 298</td>
<td>Revise</td>
<td>[DIVR] History of Women in American Society 3</td>
<td>Exploration of the many roles women have played in American society from the Colonial period through the twentieth century. (Crosslisted course offered as HISTORY 298, WOMEN ST 298).</td>
<td>HISTORY 298, WGSS 298, WOMEN ST 298.</td>
</tr>
<tr>
<td>HISTORY / WGSS 335</td>
<td>Revise</td>
<td>[DIVR] Women in Latin American History 3</td>
<td>Survey of women's changing roles throughout Latin America from pre colonial to present. (Crosslisted course offered as HISTORY 335, WOMEN ST 335).</td>
<td>HISTORY 335, WGSS 335. WGSS 335 formerly offered as WOMEN ST 335.</td>
</tr>
<tr>
<td>HISTORY / WGSS 350</td>
<td>Revise</td>
<td>European Women's History, 1400-1800 3</td>
<td>Women's experiences in Europe from the Renaissance to the Enlightenment and the ideas and roles that shaped their opportunities. (Crosslisted course offered as HISTORY 350, WOMEN ST 350).</td>
<td>HISTORY 350, WGSS 350. WGSS 350 formerly offered as WOMEN ST 350.</td>
</tr>
<tr>
<td>HISTORY / WGSS 398</td>
<td>Revise</td>
<td>[DIVR] History of Women in the American West 3</td>
<td>The multicultural history of women in the west through women's literature, archives, and oral history. (Crosslisted course offered as HISTORY 398, WOMEN ST 398).</td>
<td>HISTORY 398, WGSS 398. WGSS 398 formerly offered as WOMEN ST 398.</td>
</tr>
<tr>
<td>HISTORY / WGSS 399</td>
<td>Revise</td>
<td>[DIVR] Lesbian and Gay History: Culture, Politics and Social Change in the US 3</td>
<td>History and theory of same-sex sexuality in the United States including identity formation, community development,</td>
<td>HISTORY 398, WGSS 398. WGSS 398 formerly offered as WOMEN ST 398.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>HORT 330</td>
<td>Landscape Plants for Urban and Community Environments</td>
<td>3 (2-3)</td>
<td>Plants for solving problems in human-dominated landscapes: their characteristics, functions such as storm water management and climate change mitigation, ecology, identification, and selection. Recommended preparation: BIOLOGY 120 or HORT 202. Typically offered Fall.</td>
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<tr>
<td>HORT / VIT ENOL 399</td>
<td>Professional Work Experience</td>
<td>V 1 (0-3) to 4 (0-12)</td>
<td>May be repeated for credit; cumulative maximum 8 hours. Course Prerequisite: Admitted to the IPS major or by interview; junior standing. Planned and supervised work experience. (Crosslisted course offered as HORT 399, VIT ENOL 399). Typically offered Fall, Spring, and Summer. S, F grading.</td>
<td>Course Prerequisite: Admitted to the Viticulture and Enology major, IPS major or by interview; junior standing. Planned and supervised work experience. (Crosslisted course offered as HORT 399, VIT ENOL 399). Typically offered Fall, Spring, and Summer. S, F grading.</td>
</tr>
<tr>
<td>MBIOS 465</td>
<td>Principles of Biophysical Chemistry</td>
<td>3</td>
<td>Course Prerequisite: MBIOS 303; MATH 140 or 171; PHYSICS 102 or concurrent enrollment, or PHYSICS 202 or concurrent enrollment. Biochemical reactions and processes, molecular recognition, coupled reactions, enzyme catalysis, analysis of macromolecular structure by electrophoresis, sedimentation, viscosity, and spectroscopy. Typically offered Spring.</td>
<td>Course Prerequisite: MBIOS 303; MATH 140 or 171; 4 credits of PHYSICS 102 or 202, or PHYSICS 102 and 112 or concurrent enrollment, or PHYSICS 202 and 212 or concurrent enrollment. Biochemical reactions and processes, molecular recognition, coupled reactions, enzyme catalysis, analysis of macromolecular structure by electrophoresis, sedimentation,</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Notes</td>
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<tr>
<td>ME / MSE 241</td>
<td>3</td>
<td>Engineering Computations</td>
<td>Introduction to the computational methods used for solving numerical problems in engineering. (Crosslisted course offered as ME 241, MSE 241.) Typically offered Fall and Spring.</td>
<td>8-21</td>
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<tr>
<td>ME 301</td>
<td>3</td>
<td>Fundamentals of Thermodynamics</td>
<td>Thermodynamic properties of matter, ideal and real gases, work and heat, first and second laws and their application to engineering systems. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.</td>
<td>8-21</td>
</tr>
<tr>
<td>ME 313</td>
<td>3 (2-3)</td>
<td>Engineering Analysis</td>
<td>Analysis and modeling of engineering problems utilizing numerical and mathematical techniques and computers. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.</td>
<td>8-21</td>
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<tr>
<td>ME / MSE 413</td>
<td>3</td>
<td>Mechanics of Solids</td>
<td>Elasticity, elastic stress distributions; plastic deformation of single and</td>
<td>8-21</td>
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<tr>
<td>ME / MSE 241</td>
<td>3</td>
<td>Engineering Computations</td>
<td>Introduction to the computational methods used for solving numerical problems in engineering. (Crosslisted course offered as ME 241, MSE 241.) Typically offered Fall and Spring.</td>
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<td>Course Code</td>
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<td>Description</td>
<td>Semester Offered</td>
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<tr>
<td>ME 415</td>
<td>[M] Engineering Design 3</td>
<td>Course Prerequisite: ME 316 or concurrent enrollment; admitted to the major in Mechanical Engineering. Systems and component design; product development from specifications to manufacturing; team-based CAD design projects; engineering economics; engineering professional skills. Typically offered Fall and Spring.</td>
<td>8-21</td>
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<tr>
<td>ME 416</td>
<td>[CAPS] Mechanical Systems Design 3 (1-6)</td>
<td>Course Prerequisite: Admitted major in Mechanical Engineering; ME 304; ME 348; ME 415; senior standing; OR admitted major in Materials Science Engineering; MSE 320; MSE 413 or concurrent enrollment; one of MSE 401, 402, or 403; senior standing. Integrative design in mechanical engineering; multidisciplinary design project considering both technical and non-technical contexts; organizational dynamics and communications. Typically offered Fall and Spring.</td>
<td>8-21</td>
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<tr>
<td>ME 475</td>
<td>Manufacturing Enterprise Systems -- Automation and Product Realization 3 (2-3)</td>
<td>Course Prerequisite: ME 310; ME 311 or 312. Manufacturing automation and product</td>
<td>8-21</td>
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<tr>
<td>Course Code</td>
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<td>Course Description</td>
<td>Credits</td>
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<tr>
<td>ME 485</td>
<td>Introduction to Robotics and AI</td>
<td>An exploration of the Robot Operating System (ROS) and solutions to simple AI problems using existing machine learning frameworks. Typically offered Spring.</td>
<td>3</td>
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<td>MECH 211</td>
<td>Statics</td>
<td>Course Prerequisite: MATH 172 or 182 or concurrent enrollment; PHYSICS 201 or concurrent enrollment. Static equilibrium analysis of particles and rigid bodies, free-body diagrams, moment diagrams, friction, center of gravity, moments of inertia. Typically offered Fall.</td>
<td>3</td>
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<tr>
<td>MECH 251</td>
<td>Numerical Computing for Engineers</td>
<td>2 Course Prerequisite: MATH 172 or 182; MATH 220 or concurrent enrollment. Introduction to numerical computing in the context of problem solving including data analysis, data visualization, MATLAB programming and numerical techniques. Typically offered Fall.</td>
<td>2</td>
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<tr>
<td>MECH 301</td>
<td>Thermodynamics</td>
<td>3 Course Prerequisite: PHYSICS 201. Thermodynamic properties of matter, ideal and real gases, work and heat, first and second</td>
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<tr>
<td>MECH</td>
<td>304</td>
<td>Revise</td>
<td>Introduction to Electronic Circuits</td>
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<td>Course Prerequisite: MATH 315 or concurrent enrollment; PHYSICS 202. Introduction to DC and AC circuits, analog electronic components, digital circuits, and engineering measurements. Typically offered Fall.</td>
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<th>MECH</th>
<th>309</th>
<th>Revise</th>
<th>[M] Introduction of Engineering Materials</th>
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<td></td>
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<td></td>
<td>Course Prerequisite: MECH 215; CHEM 105 or concurrent enrollment; PHYSICS 201 or concurrent enrollment. Structure of materials, phase equilibrium, phase transformations, mechanical failure, and mechanical properties; materials testing laboratory. Typically offered Fall.</td>
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<tr>
<th>MECH</th>
<th>431</th>
<th>Revise</th>
<th>Semiconductor Devices</th>
<th>3</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Course Prerequisite: CHEM 105; PHYSICS 202. Crystal properties, energy bands, semiconductor charge carriers, p-n junctions, field-effect transistors, bipolar junction transistors, optoelectronic devices, integrated circuits. Typically offered Spring.</td>
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<tr>
<th>MECH</th>
<th>438</th>
<th>Revise</th>
<th>Microfabrication Technology</th>
<th>3</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Course Prerequisite: CHEM 105; MATH 315; PHYSICS 202. Microelectronic fabrication technology, semiconductor material, diffusion, thermal oxidation, ion implantation,</td>
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<tr>
<td>MECH 441</td>
<td>MECH</td>
<td>Fundamentals of Renewable Energy</td>
<td>PHYSICS 202; MATH 273</td>
<td>An examination of the fundamentals and the impact of renewable energy technology, including wind, solar, hydroelectricity, and alternate fuels. Typically offered Spring.</td>
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<tr>
<td>MECH 450</td>
<td>MECH</td>
<td>Advanced Topics in Micro and Nano Technology</td>
<td>CHEM 106; PHYSICS 202</td>
<td>Microfabrication technology, bulk and surface micromachining, sensors and actuators, microelectromechanical systems (MEMS), nanofabrication technology, micro/nano scale material and device measurements. Credit not granted for both MECH 450 and MECH 550. Offered at 400 and 500 level. Typically offered Spring.</td>
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<tr>
<td>MSE 302</td>
<td>MSE</td>
<td>Electronic Materials</td>
<td>CHEM 105; PHYSICS 202 or concurrent enrollment</td>
<td>Structure of materials, electronic structure of solids; thermal, electrical, dielectric, and magnetic properties of materials; semiconductors processing. Typically offered Fall and Spring.</td>
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Typically offered Fall. Credit not granted for both MECH 438 and MECH 538. Offered at 400 and 500 level. Typically offered Fall.

Typically offered Fall. Credit not granted for both MECH 438 and MECH 538. Offered at 400 and 500 level. Typically offered Fall.

Typically offered Spring. Credit not granted for both MECH 438 and MECH 538. Offered at 400 and 500 level. Typically offered Fall.

Typically offered Spring. Credit not granted for both MECH 438 and MECH 538. Offered at 400 and 500 level. Typically offered Fall.

Typically offered Spring. Credit not granted for both MECH 438 and MECH 538. Offered at 400 and 500 level. Typically offered Fall.
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<tr>
<td>MUS / WGSS</td>
<td>363</td>
<td>Revise [DIVR] Women in Music 3</td>
<td>Intersections of gender, class, race, and culture with popular and country music. (Crosslisted course offered as MUS 363, WOMEN ST 363)</td>
<td>Typically offered Spring and Summer.</td>
<td>8-21</td>
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<tr>
<td>MUS</td>
<td>597</td>
<td>Revise Performance Studies for Distance Learners 2 (0-6) to 4 (0-12)</td>
<td>May be repeated for credit; cumulative maximum 6 hours.</td>
<td>Course Prerequisite: Admitted to the Online Masters of Arts in Music program; graduate advisor permission; instructor permission. Participation in video conference-based lessons or completion of performance-based projects, i.e., a recording project or concert presented in the online student's home community submitted as a video/audio recording.</td>
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<td>NEUROSCI</td>
<td>430</td>
<td>Revise [M] Principles of Neurophysiology 4 (3-3)</td>
<td>Course Prerequisite: NEUROSCI 302, PHYSICS 102, 202 or 206.</td>
<td>Advanced exploration of the principles underlying cellular, sensory, motor and integrative functions of the nervous system. Recommended preparation: MBIOS 303. Typically offered Fall.</td>
<td>8-21</td>
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<tr>
<td>PHIL / POL S / WGSS</td>
<td>425</td>
<td>Revise Philosophy and Feminism 3</td>
<td>Course Prerequisite: PHIL 101, WOMEN ST 101, or WOMEN ST 120.</td>
<td>Feminist philosophy as critique of Western philosophical tradition and as alternate framework for</td>
<td>8-21</td>
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<td>PHYSICS 102</td>
<td>Revise</td>
<td><strong>General Physics</strong> 4 (3-3) Course Prerequisite: PHYSICS 101 with a grade of C or better; MATH 108 with a grade of C or better, a minimum ALEKS math placement score 75%, or passing MATH 140, 171, or 202. Algebra/trigonometry-based physics; topics in electricity, magnetism, optical phenomena, relativity, and quantum theory; oriented toward non-physical science majors. Typically offered Fall, Spring, and Summer.</td>
<td>General Physics 3 Course Prerequisite: 4 credits of PHYSICS 101 with a C or better, or PHYSICS 101 and 111 with a C or better; PHYSICS 112 or concurrent enrollment; MATH 108 with a grade of C or better, a minimum ALEKS math score 75%, or passing MATH 140, 171, or 202. Algebra/trigonometry-based physics; topics in electricity, magnetism, optical phenomena, relativity, and quantum theory; oriented toward non-physical science majors. Typically offered Fall, Spring, and Summer.</td>
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<td>PHYSICS 103</td>
<td>Revise</td>
<td><strong>Problem Solving for Physics 101</strong> 1 Course Prerequisite: Concurrent enrollment in PHYSICS 101. Small class environment for students who desire focused attention on problem solving skills as applied to PHYSICS 101 materials. S, F grading.</td>
<td>Problem Solving for Physics 101 1 Course Prerequisite: Concurrent enrollment in PHYSICS 101 and 111. Small class environment for students who desire focused attention on problem solving skills as applied to PHYSICS 101 and 111 materials. S, F grading.</td>
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<td>PHYSICS 104</td>
<td>Revise</td>
<td><strong>Problem Solving for Physics 102</strong> 1 Course Prerequisite: Concurrent enrollment in PHYSICS 102. Small class environment for students who desire focused attention on problem solving skills as applied to PHYSICS 102 materials. S, F grading.</td>
<td>Problem Solving for Physics 102 1 Course Prerequisite: Concurrent enrollment in PHYSICS 102 and 112. Small class environment for students who desire focused attention on problem solving skills as applied to PHYSICS 102 materials. S, F grading.</td>
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<td>PHYSICS 202</td>
<td>Revise</td>
<td><strong>Physics for Scientists and Engineers II</strong> 4 (3-3) Course Prerequisite: PHYSICS 201 with a C or better or PHYSICS 205 with a C or better; MATH 172 with a C or better or MATH 171 with a C or better.</td>
<td>Physics for Scientists and Engineers II 3 Course Prerequisite: 4 credits of PHYSICS 201 with a C or better, or PHYSICS 201 and 211 with a C or better, or MATH 172 with a C or better, or MATH 171 with a C or better.</td>
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| PHYSICS 203 | 8-21        | Problem Solving for Physics 201
|             | 1 Course Prerequisite: Concurrent enrollment in PHYSICS 201. Small class environment for students who desire focused attention on problem solving skills as applied to PHYSICS 201 materials. S, F grading. |
| PHYSICS 204 | 8-21        | Problem Solving for Physics 202
|             | 1 Course Prerequisite: Concurrent enrollment in PHYSICS 202. Small class environment for students who desire focused attention on problem solving skills as applied to PHYSICS 202 materials. S, F grading. |
| PHYSICS 206 | 8-21        | Physics for Scientists and Engineers II - Honors
|             | 5 (3-5)     | Course Prerequisite: PHYSICS 201 with a C or better or PHYSICS 205 with a C or better; MATH 172 with a C or better or MATH 182 with a C or better. Calculus-based physics, honors section; electricity, magnetism, light, topics in modern physics. Typically offered Fall. |
| PHYSICS 303 | 8-21        | Modern Physics I
<p>|             | 3 Course Prerequisite: MATH 220 or concurrent enrollment or MATH 230 or concurrent |</p>
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<td>PHYSICS 320</td>
<td>Revise Mechanics 3 Course</td>
<td>Prerequisite: MATH 315 or concurrent enrollment; MATH 220 or concurrent enrollment or MATH 230 or concurrent enrollment; PHYSICS 202 or 206. Particle motion in one-, two-, and three-dimensions; motions of systems of particles; rigid body motion; Lagrange's equations. Typically offered Fall.</td>
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<td>PHYSICS 330</td>
<td>Revise Thermal Physics 3 Course</td>
<td>Prerequisite: MATH 273 or 283; PHYSICS 202 or 206. Thermal behavior of systems; energy and entropy; equations of state; changes of phase; elements of continuum and statistical approaches. Typically offered Spring.</td>
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<td>PHYSICS 341</td>
<td>Revise Electricity and Magnetism I 3 Course</td>
<td>Prerequisite: MATH 315 or concurrent enrollment; PHYSICS 202 or 206. Electrostatic fields, magnetic fields, dielectric and magnetic media. Typically offered Fall.</td>
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<td>PHYSICS 410</td>
<td>Revise Electronics 4 (2-6) Course</td>
<td>Prerequisite: PHYSICS 202 or 206. Laboratory construction and investigation of electronic</td>
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<td>PHYSICS 466</td>
<td>Biological Physics</td>
<td>3 Course Prerequisite: CHEM 106 or 116; MATH 172 or 182; PHYSICS 202 or 206. Fundamental physics and thermodynamics of the cell; mechanics of biomolecular machines. Credit not granted for both PHYSICS 466 and PHYSICS 566. Offered at 400 and 500 level. Typically offered Fall.</td>
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<td>POL S / WGSS 305</td>
<td>Gender and Politics</td>
<td>3 Role of gender in political behavior; voting and political participation; women as subjects and objects of political systems. (Crosslisted course offered as POL S 305, WOMEN ST 305). Typically offered Spring and Summer.</td>
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<td>PSYCH / WGSS 230</td>
<td>Human Sexuality</td>
<td>3 Sexuality in personal development; personal, cultural, biological influences on sexual identification and behavior; fertility, reproduction, sexual functioning, sexuality and personality. (Crosslisted course offered as PSYCH 230, WOMEN ST 230). Recommended preparation: PSYCH 105. Typically offered Fall and Spring.</td>
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<td>PSYCH / WGSS 324</td>
<td>Psychology of Gender</td>
<td>3 Contemporary overview of the psychological theory and research on sex and gender. (Crosslisted course offered as</td>
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<tr>
<td>PSYCH 324, WOMEN ST 324</td>
<td>The Sociology of Sex, Relationships, and Marriage</td>
<td>Social and personal factors in mate selection; the sociology of sexuality; development of gender roles; and intimate relationships and marriage. (Crosslisted course offered as SOC 251, WOMEN ST 251).</td>
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<tr>
<td>SOC / WGSS 251</td>
<td>Revise [DIVR] The Sociology of Sex, Relationships, and Marriage</td>
<td>Social and personal factors in mate selection; the sociology of sexuality; development of gender roles; and intimate relationships and marriage. (Crosslisted course offered as SOC 251, WOMEN ST 251).</td>
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<tr>
<td>SOC / WGSS 351</td>
<td>Revise [DIVR] The Family</td>
<td>Family system and its interaction patterns; family formation and dissolution; marital and partner relations, divorce, sexuality, parenting, work-family balance. (Crosslisted course offered as SOC 351, WOMEN ST 351).</td>
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<tr>
<td>SOC / WGSS 384</td>
<td>Revise Sociology of Gender</td>
<td>Construction and maintenance of gender and gender inequality in American society. (Crosslisted course offered as SOC 384, WOMEN ST 384).</td>
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<td>SOC / WGSS 390</td>
<td>Revise Gender and Work</td>
<td>Gender and inequality at work including occupational segregation, wage inequality and balancing work and family.</td>
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<td>Environmental Soil Physics 3</td>
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<td>Functional Anatomy of Domestic Animals 4 (3-3)</td>
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<td>[DIVR] Introduction to Women's, Gender, and Sexuality Studies 3</td>
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<td>[DIVR] Sex, Race, and Reproduction in Global Health Politics 3</td>
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<td>WGSS / ENGLISH</td>
<td>[HUM] Sex Matters: Introduction to Queer Culture and Literature 3</td>
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<td>film; work from various queer communities in its cultural/historical context. (Crosslisted course offered as WOMEN ST 211, ENGLISH 211). Typically offered Fall and Spring.</td>
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<td>[DIVR] Gender, Culture and Science 3 Analysis of intersections of gender, sexuality, race, and culture with science and technology.</td>
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<td>[DIVR] [M] Intersections of Race, Class, Gender, and Sexuality 3 Course Prerequisite: SOC 101 or WOMEN ST 101. Intersections between race, class and gender through case studies; experiences in interdisciplinary methods. (Crosslisted course offered as WGSS 300, ENGLISH 310, SOC 300). Typically offered Fall, Spring, and Summer.</td>
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<td>Introduction to Critical Race Feminism 3 Studies structural inequalities in the US through historically grounded analysis of social systems, race, gender, and the law. (Formerly WOMEN ST 301.)</td>
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<td>Contemporary Masculinities 3 Analysis of the development of masculinity in its biological and cultural forms. (Crosslisted course offered as WOMEN ST 302, SOC 302). Typically offered Spring and Summer.</td>
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<td>film; work from various queer communities in its cultural/historical context. (Crosslisted course offered as WGSS 211, ENGLISH 211. WGSS 211 formerly offered as WOMEN ST 211.) Typically offered Fall and Spring.</td>
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<td>Special Topics: Study Abroad V 1-15 May be repeated for credit. (Formerly WOMEN ST 277.) S, F grading.</td>
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<td>[DIVR] [M] Intersections of Race, Class, Gender, and Sexuality 3 Course Prerequisite: SOC 101 or WGSS 101. Intersections between race, class and gender through case studies; experiences in interdisciplinary methods. (Crosslisted course offered as WGSS 300, ENGLISH 310, SOC 300. WGSS 300 formerly offered as WOMEN ST 300.) Typically offered Fall, Spring, and Summer.</td>
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<td>Introduction to Critical Race Feminism 3 Studies structural inequalities in the US through historically grounded analysis of social systems, race, gender, and the law. (Formerly WOMEN ST 301.)</td>
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<td>Contemporary Masculinities 3 Analysis of the development of masculinity in its biological and cultural forms. (Crosslisted course offered as WGSS 302, SOC 302. WGSS 302 formerly offered as WOMEN ST 302.)</td>
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<tr>
<td>WGSS 321</td>
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<td>Revise</td>
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<td>WGSS / ANTH 332 / 317</td>
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<td>WGSS / HISTORY 336</td>
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<td>WGSS 338</td>
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<td>WGSS 340</td>
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<tr>
<td>WGSS / HISTORY 369</td>
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<td>Revise</td>
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Notes:
- Global Feminisms 3 Course Prerequisite: ANTH 101, WGSS 101, or WGSS 120. An interdisciplinary approach to examining women's roles and experiences throughout the world and different approaches to feminism/feminisms. (Crosslisted course offered as WGSS 332, ANTH 317. WGSS 332 formerly offered as WOMEN ST 332.) Typically offered Spring.
- History of Sexualities 3 Course Prerequisite: CES 101, WGSS 101, or WGSS 120. An interdisciplinary approach to examining women's roles and experiences throughout the world and different approaches to feminism/feminisms. (Crosslisted course offered as WGSS 336, HISTORY 336. WGSS 336 formerly offered as WOMEN ST 336.) Typically offered Spring.
- [HUM] Gender, Race, and Popular Culture 3 Feminist study of intersections of gender, race, class, sexuality, and ability through popular film, television, digital media, art, literature, and performance. (Formerly offered as WOMEN ST 338.) Typically offered Fall, Spring, and Summer.
- Third World Women and Film 3 Focus on the intersections of race, gender, class, sexuality, and nation in third world women's films. (Formerly WOMEN ST 340.)
- [ARTS] Queer Identities in Contemporary Cultures 3 Course Prerequisite: CES 101,
<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
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<th>Prerequisites</th>
<th>Description</th>
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<tr>
<td>HISTORY 105, HISTORY 305, WOMEN ST 101, or WOMEN ST 120</td>
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<td>Analysis of roots/legacies of creative resistance writing by Queer communities of color; students learn to produce creative resistance work. (Crosslisted course offered as WOMEN ST 369, HISTORY 369)</td>
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<tr>
<td>HISTORY 105, HISTORY 305, WGSS 101, or WGSS 120</td>
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<td>Analysis of roots/legacies of creative resistance writing by Queer communities of color; students learn to produce creative resistance work. (Crosslisted course offered as WGSS 369, HISTORY 369. WGSS 369 formerly offered as WOMEN ST 369.)</td>
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<tr>
<td>WGSS / SOC 385</td>
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<td>Revise [DIVR] Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3 Course</td>
<td>Prerequisite: Junior standing. Interdisciplinary exploration of issues related to gender and sexuality, explored transhistorically and cross-culturally, including race, class and age differences. (Crosslisted course offered as WOMEN ST 385, SOC 385). Typically offered Spring.</td>
<td>[DIVR] Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3 Course Prerequisite: Junior standing. Interdisciplinary exploration of issues related to gender and sexuality, explored transhistorically and cross-culturally, including race, class and age differences. (Crosslisted course offered as WGSS 385, SOC 385. WGSS 385 formerly offered as WOMEN ST 385.) Typically offered Spring.</td>
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<tr>
<td>WGSS 406</td>
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<td>Revise Women and Work in Global Contexts 3 An interdisciplinary approach to women's labor in global contexts that analyzes differences among women as well as possible shared interests.</td>
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<td>Women and Work in Global Contexts 3 An interdisciplinary approach to women's labor in global contexts that analyzes differences among women as well as possible shared interests. (Formerly WOMEN ST 406.)</td>
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<td>WGSS 410</td>
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<td>Revise Internship V 1-12 May be repeated for credit; cumulative maximum 12 hours. Course Prerequisite: WOMEN ST 101 or 201; WOMEN ST 300 with a B or better, or 481 with a B or better; by interview only. Supervised experience in approved campus or community agencies or projects focusing on women's issues.</td>
<td></td>
<td>Internship V 1-12 May be repeated for credit; cumulative maximum 12 hours. Course Prerequisite: WGSS 101 or 120; WGSS 300 with a B or better, or 481 with a B or better; by interview only. Supervised experience in approved campus or community agencies or projects focusing on women's issues. (Formerly WOMEN ST 410.)</td>
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<td>WGSS 460</td>
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<td>Revise Gender, Race, and Nature in American Culture 3 Course</td>
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<td>Course Code</td>
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<td>WOMEN ST 101, 201, or 300; junior standing. Exploration of American culture through examination of cultural representations of nature in mainstream and environmental politics.</td>
<td>[M] Women and Ethics 3 Course Prerequisite: PHIL 101, WOMEN ST 101, or WOMEN ST 201. Study of gender and feminism and their effect on contemporary ethical theories and issues. (Crosslisted course offered as WOMEN ST 462, PHIL 462). Cooperative: Open to UI degree-seeking students.</td>
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| WGSS 499    | 1-4   | Special Problems V  
May be repeated for credit. Independent study conducted under the jurisdiction of an approving faculty member; may include independent research studies in technical or specialized problems; selection and analysis of specified readings; development of a creative project; or field experiences. S, F grading. |
|           | 8-21 | Special Problems V  
May be repeated for credit. Independent study conducted under the jurisdiction of an approving faculty member; may include independent research studies in technical or specialized problems; selection and analysis of specified readings; development of a creative project; or field experiences. (Formerly WOMEN ST 499.) S, F grading. |

Standing; or admitted to the minor in Women's Studies or Queer Studies, and department permission. Seminar-style culminating experience in synthesizing prior learning and new scholarship for application of theory and practice; written and oral communication of original final project research. Typically offered Even Years - Spring.