

## MEMORANDUM

TO: Deans and Chairs

FROM: Becky Bitter, Sr. Assistant Registrar

DATE: March 5, 2024

SUBJECT: Minor Change Bulletin No.10

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.

| Subject | Course Number | Revise Drop | Current   | Proposed  | Effective Date |
|---------|---------------|-------------|---|---|----------------|
| BIO ENG | 410           | Revise      | <del>[M] Bioengineering Capstone Project I 3 (2-3) Course<br/>Prerequisite: BIO ENG 321 with a C or better; BIO ENG 322 with a C or better; BIO ENG 330 with a C or better; BIO ENG 340 with a C or better. Part I of capstone engineering design project; customer needs, design requirements, conceptual design, business assessment, project proposal, and presentation. Typically offered Fall.</del> | <u>[M] Bioengineering Capstone Project I 3 (2-3) Course<br/>Prerequisite: BIO ENG 305, BIO ENG 350, and BIO ENG 360, each with a C or better; BIO ENG 456 and BIO ENG 475, OR BIO ENG 420 and BIO ENG 430, each with a C or better or concurrent enrollment; admitted to the major in Bioengineering. Part I of capstone engineering design project; problem definition, design requirements, conceptual design, detail design, and technical writing and presentation. Typically offered Fall.</u> | 1-25           |
| CHE     | 310           | Revise      | <b>Introduction to Transport Processes 3 Course</b><br>Prerequisite: CHE 201 with a C or better; MATH 315 with a C or better or concurrent enrollment; BIO ENG 205 or both CHE 101 and CHE 211 with a C or better or concurrent enrollment; admitted to the major in Chem Engr or Bioenr. Fundamentals of the phenomena governing the transport of momentum, energy, and mass. <del>(Crosslisted</del>    | <b>Introduction to Transport Processes 3 Course</b><br>Prerequisite: CHE 201 with a C or better; MATH 315 with a C or better or concurrent enrollment; BIO ENG 205 or both CHE 101 and CHE 211 with a C or better or concurrent enrollment; admitted to the major in Chem Engr or Bioenr. Fundamentals of the phenomena governing the transport of momentum, energy, and mass. Typically offered Fall.  | 5-24           |

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|                                  |                  |               | <del>course offered as CHE 310, BIO ENG 310).</del> Typically offered Fall.  |   |             |
| <b>CHE / BIO ENG</b>             | <b>475</b>       | <b>Revise</b> | <b>Biochemical Engineering 3</b><br><del>Course Prerequisite: CHE 321 and 332 each with a C or better, OR BIO ENG 310, and 340, and 350 each with a C or better.</del><br>Application of chemical engineering principles to the processing of biological and biochemical materials.<br>(Crosslisted course offered as CHE 475, BIO ENG 475.)<br>Credit not granted for both CHE 475/BIO ENG 475 and CHE 575. Offered at 400 and 500 level. Typically offered Fall. | <b>Biochemical Engineering 3</b><br><u>Course Prerequisite: CHE 321 and 332 each with a C or better, OR BIO ENG 310, and 340, and 350 each with a C or better.</u><br>Application of chemical engineering principles to the processing of biological and biochemical materials.<br>(Crosslisted course offered as CHE 475, BIO ENG 475.) Credit not granted for both CHE 475/BIO ENG 475 and CHE 575. Offered at 400 and 500 level. Typically offered Fall. | <b>8-24</b> |
| <b>COMSTRAT</b>                  | <b>324</b>       |               | <b>[M] Reasoning and Writing 3</b><br>Course Prerequisite: COM 300 with a C or better; admitted to any major or minor in the College of Communication; sophomore standing. <del>Theories of persuasion and social action; study of strategies and techniques for the persuasive use of language and other symbols.</del>   | <b>[M] Reasoning and Writing 3</b><br>Course Prerequisite: COM 300 with a C or better; admitted to any major or minor in the College of Communication; sophomore standing. <u>Development of critical thinking, information gathering, and persuasive writing skills using different forms of argumentation; voice, tone, form, structure are emphasized.</u>   |             |
| <b>ENGLISH</b>                   | <b>444 / 544</b> | <b>Revise</b> | <b>Morphology and Syntax 3</b><br>Technical introduction to the analysis of word and sentence structure from a cross-linguistic perspective. Credit not granted for both ENGLISH 444 and 544. Offered at 400 and 500 level. Typically offered Even Years - Spring.   | <b>Morphology and Syntax 3</b><br>Technical introduction to the analysis of word and sentence structure from a cross-linguistic perspective. <u>Recommended preparation: ENGLISH 256.</u> Credit not granted for both ENGLISH 444 and 544. Offered at 400 and 500 level. Typically offered Even Years - Spring.   | <b>8-24</b> |
| <b><u>ENGLISH / HUMANITY</u></b> | <b>219</b>       | <b>Revise</b> | <b>[HUM] Introduction to the Environmental Humanities 3</b><br>An introduction to the Humanities, as an interdisciplinary field, and how Humanities methods and research contribute to, intersect  | <b>[HUM] Introduction to the Environmental Humanities 3</b><br>An introduction to the Humanities, as an interdisciplinary field, and how Humanities methods and research contribute to, intersect   | <b>5-24</b> |

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|--------------|------------|---------------|--|--|-------------|
|              |            |               | with, and can learn from, environmental thought and action. Typically offered Fall and Spring.   | with, and can learn from, environmental thought and action. ( <u>Crosslisted course offered as ENGLISH 219, HUMANITY 219</u> ). Typically offered Fall and Spring.   |             |
| <b>ENTRP</b> | <b>105</b> | <b>New</b>    | <del><b>Personal Branding and Entrepreneurship for Athletes</b></del> 1 Overview of athlete focused entrepreneurship, introduction to related business concepts.   | <b><u>Entrepreneurship for Athletes</u></b><br>1 Overview of athlete focused entrepreneurship, introduction to related business concepts. Typically offered Fall, Spring, and Summer.  | <b>8-24</b> |
| <b>FIN</b>   | <b>345</b> | <b>Revise</b> | <del><b>Real Estate 3 Course</b></del><br><del>Prerequisite: FIN 325 or concurrent enrollment; admitted to a major or minor in the College of Business.</del><br>Relationships between location and value; patterns of urban land use; legal, financial, and organizational framework of the real estate business. Typically offered Fall and Spring.  | <b><u>Real Estate 3 Course</u></b><br><u>Prerequisite: FIN 325 or concurrent enrollment; admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u><br>Relationships between location and value; patterns of urban land use; legal, financial, and organizational framework of the real estate business. Typically offered Fall and Spring.   | <b>5-24</b> |
| <b>FIN</b>   | <b>421</b> | <b>Revise</b> | <del><b>Financial Institutions and Intermediation 3 Course</b></del><br><del>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business or major in Data Analytics.</del> Characteristics of financial markets and institutions; analysis of fixed-income securities; and introduction to financial risk management. Typically offered Fall and Spring. | <b><u>Financial Institutions and Intermediation 3 Course</u></b><br><u>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business, the major in Data Analytics, or the major in Economic Sciences.</u><br>Characteristics of financial markets and institutions; analysis of fixed-income securities; and introduction to financial risk management. Typically offered Fall and Spring. | <b>5-24</b> |
| <b>FIN</b>   | <b>422</b> | <b>Revise</b> | <del><b>Financial Institutions Management 3 Course</b></del><br><del>Prerequisite: FIN 325 with a C or better; FIN 421 or concurrent enrollment; admitted to a major or minor in the College of Business.</del> Problems facing financial institution managers and solution techniques; credit risk analysis and management;   | <b><u>Financial Institutions Management 3 Course</u></b><br><u>Prerequisite: FIN 325 with a C or better; FIN 421 or concurrent enrollment; admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u> Problems facing financial institution managers and solution   | <b>5-24</b> |

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|     |     |        | financial institutions structure and regulation.  | techniques; credit risk analysis and management; financial institutions structure and regulation.  |      |
| FIN | 425 | Revise | <b>[M] Intermediate Financial Management 3 Course</b><br><del>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business or major in Data Analytics.</del> Application of finance theory and principles to corporate decisions such as capital budgeting, cost of capital, financing decisions, and valuation. Typically offered Fall and Spring.  | <b>[M] Intermediate Financial Management 3 Course</b><br><u>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business, the major in Data Analytics, or the major in Economic Sciences.</u> Application of finance theory and principles to corporate decisions such as capital budgeting, cost of capital, financing decisions, and valuation. Typically offered Fall and Spring.  | 5-24 |
| FIN | 427 | Revise | <b>[M] Investment Analysis 3 Course</b><br><del>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business or major in Data Analytics.</del> Enrollment not allowed if credit already earned for FIN 437. Investment objectives, modern portfolio theory, valuation, equilibrium, market efficiency and asset classes. Credit not granted for more than one of FIN 427 and 437. Typically offered Fall and Spring. | <b>[M] Investment Analysis 3 Course</b><br><u>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business, the major in Data Analytics, or the major in Economic Sciences.</u> Enrollment not allowed if credit already earned for FIN 437. Investment objectives, modern portfolio theory, valuation, equilibrium, market efficiency and asset classes. Credit not granted for more than one of FIN 427 and 437. Typically offered Fall and Spring. | 5-24 |
| FIN | 428 | Revise | <b>Portfolio Theory and Financial Engineering 3 Course</b><br><del>Prerequisite: FIN 427 or 437 with a C or better; admitted to a major or minor in the College of Business.</del> Pricing of forwards, futures, options, and swaps, financial derivatives markets, and managing portfolio risk. Typically offered Spring.  | <b>Portfolio Theory and Financial Engineering 3 Course</b><br><u>Prerequisite: FIN 427 or 437 with a C or better; admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u> Pricing of forwards, futures, options, and swaps, financial derivatives markets, and managing portfolio risk. Typically offered Spring.  | 5-24 |
| FIN | 429 | Revise | <b>Financial Modeling 3 Course</b><br><del>Prerequisite: FIN 325 with a C or better; FIN 421, 425, 427, or</del>  | <b>Financial Modeling 3 Course</b><br><u>Prerequisite: FIN 325 with a C or better; FIN 421, 425, 427, or</u>   | 5-24 |

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|     |     |        | 437, or concurrent enrollment; <del>admitted to a major or minor in the College of Business.</del> Corporate finance, portfolio, option pricing, risk management and fixed income modeling. Typically offered Spring.  | 437, or concurrent enrollment; <u>admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u> Corporate finance, portfolio, option pricing, risk management and fixed income modeling. Typically offered Spring.  |      |
| FIN | 437 | Revise | <b>[M] Cougar Investment Fund I 3</b> <del>Course Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business.</del> Enrollment not allowed if credit already earned for FIN 427. Students manage a portion of the university's endowment; including security analysis, valuation, equilibrium, market efficiency, and modern portfolio theory. Credit not granted for more than one of FIN 427 and 437. Typically offered Fall. | <b>[M] Cougar Investment Fund I 3</b> <u>Course Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u> Enrollment not allowed if credit already earned for FIN 427. Students manage a portion of the university's endowment; including security analysis, valuation, equilibrium, market efficiency, and modern portfolio theory. Credit not granted for more than one of FIN 427 and 437. Typically offered Fall. | 5-24 |
| FIN | 438 | Revise | <b>Cougar Investment Fund II 3</b> <del>Course Prerequisite: FIN 427 or 437 with a C or better; admitted to a major or minor in the College of Business.</del> Students manage a portion of the university's endowment. Topics include portfolio risk management, return attribution, private equity, and hedge funds. Typically offered Spring.   | <b>Cougar Investment Fund II 3</b> <u>Course Prerequisite: FIN 427 or 437 with a C or better; admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u> Students manage a portion of the university's endowment. Topics include portfolio risk management, return attribution, private equity, and hedge funds. Typically offered Spring.   | 5-24 |
| FIN | 445 | Revise | <b>[M] Real Estate Valuation 3</b> <del>Course Prerequisite: FIN 325 with a C or better; FIN 345 with a C or better; admitted to a major or minor in the College of Business.</del> Principles and practices of real property valuation; factors affecting real property values and income; appraisal and location theory.   | <b>[M] Real Estate Valuation 3</b> <u>Course Prerequisite: FIN 325 with a C or better; FIN 345 with a C or better; admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u> Principles and practices of real property valuation; factors affecting real property values and income; appraisal and location theory.   | 5-24 |

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| FIN | 447 | Revise | <p><b>Real Estate Finance and Investments 3 Course</b><br/> <del>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business.</del> Instruments and institutions of real estate and financing: decision-making tools, mortgage financing analysis, mortgage securities and real estate portfolios. Typically offered Spring.</p>                                    | <p><b>Real Estate Finance and Investments 3 Course</b><br/> <u>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u> Instruments and institutions of real estate and financing: decision-making tools, mortgage financing analysis, mortgage securities and real estate portfolios. Typically offered Spring.</p>                                    | 5-24 |
| FIN | 451 | Revise | <p><b>Life Insurance and Financial Planning 3 Course</b><br/> <del>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business.</del> Analysis of the personal risks of premature death, poor health, and retirement security; financial planning solutions to these risks, including life insurance, health insurance and annuities. Typically offered Spring.</p> | <p><b>Life Insurance and Financial Planning 3 Course</b><br/> <u>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u> Analysis of the personal risks of premature death, poor health, and retirement security; financial planning solutions to these risks, including life insurance, health insurance and annuities. Typically offered Spring.</p> | 5-24 |
| FIN | 452 | Revise | <p><b>Property and Liability Insurance 3 Course</b><br/> <del>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business.</del> Analysis and management of business property, liability and consequential loss exposures; issues in the property and liability insurance industry.</p>   | <p><b>Property and Liability Insurance 3 Course</b><br/> <u>Prerequisite: FIN 325 with a C or better; admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u> Analysis and management of business property, liability and consequential loss exposures; issues in the property and liability insurance industry.</p>   | 5-24 |
| FIN | 481 | Revise | <p><b>[M] International Finance 3 Course</b><br/> <del>Prerequisite: FIN 325 with a C or better; IBUS 380 with a C or better; admitted to a major or minor in the College of Business.</del> Financial management of multinational businesses; international financial market rates and capital flows. International</p>  | <p><b>[M] International Finance 3 Course</b><br/> <u>Prerequisite: FIN 325 with a C or better; IBUS 380 with a C or better; admitted to a major or minor in the College of Business, or the major in Economic Sciences.</u> Financial management of multinational businesses; international financial market rates and capital</p>   | 5-24 |

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|                 |            |               | economic institutions, sources of capital, and investments. Typically offered Fall and Spring.   | flows. International economic institutions, sources of capital, and investments. Typically offered Fall and Spring.   |             |
| <b>MBIOS</b>    | <b>301</b> | <b>Revise</b> | <b>General Genetics 4</b> Course<br>Prerequisite: BIOLOGY 106 or 120; BIOLOGY 107. Principles of modern and classical genetics. (Crosslisted course offered as MBIOS 301, BIOLOGY 301). Typically offered Fall, Spring, and Summer.  | <b>General Genetics 3</b> Course<br>Prerequisite: BIOLOGY 106 or 120; BIOLOGY 107. Principles of modern and classical genetics. (Crosslisted course offered as MBIOS 301, BIOLOGY 301). Typically offered Fall, Spring, and Summer.   | <b>8-24</b> |
| <b>MED CLIN</b> | <b>538</b> | <b>Revise</b> | <del><b>Core – Rural Medicine</b></del> 4 May be repeated for credit; cumulative maximum 12 credits. Course Prerequisite: MED CLIN 524. Caring for patients in communities with limited medical facilities; issues related to referrals and transfers to tertiary care centers for more complex medical problems and care coordination with local resources. H, NH, S, F grading.  | <b>Core - Rural Underserved Medicine</b> 4 May be repeated for credit; cumulative maximum 12 credits. Course Prerequisite: MED CLIN 524. Caring for patients in communities with limited medical facilities; issues related to referrals and transfers to tertiary care centers for more complex medical problems and care coordination with local resources. H, NH, S, F grading.  | <b>5-24</b> |
| <b>MED CLIN</b> | <b>539</b> | <b>Revise</b> | <del><b>Core – Underserved Medicine</b></del> 4 May be repeated for credit; cumulative maximum 12 credits. Course Prerequisite: MED CLIN 524. The health care issues of underserved populations and the complexities of providing for their medical needs in challenging social situations; disparities in the American health care system and challenges under-resourced patients face in meeting their medical needs. H, NH, S, F grading. | <b>Core - Urban Underserved Medicine</b> 4 May be repeated for credit; cumulative maximum 12 credits. Course Prerequisite: MED CLIN 524. The health care issues of underserved populations and the complexities of providing for their medical needs in challenging social situations; disparities in the American health care system and challenges under-resourced patients face in meeting their medical needs. H, NH, S, F grading. | <b>5-24</b> |
| <b>PHARMSCI</b> | <b>505</b> | <b>Drop</b>   | <b>Principles and Methods of Toxicology</b> 3 Course<br>Prerequisite: MBIOS 513. Basic concepts in mammalian toxicology and the methodology currently employed for toxicological   | --N/A--   | <b>8-24</b> |

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|          |     |        | investigations. Required preparation: 300-level organ/mammalian physiology course.   |  |      |
| PHARMSCI | 540 | Drop   | <b>Fundamentals of Chronopharmacology 3</b> Role of the circadian clock in pharmacology as it relates to therapeutic efficacy; special emphasis on anti-cancer drug treatment. Typically offered Even Years - Fall.  | --N/A--  | 8-24 |
| PHARMSCI | 566 | Drop   | <b>Fundamentals of Toxicology 3</b> Application of toxicology in the safety evaluation and risk assessment at the molecular, cellular, and organ levels; special emphasis on the concepts and approaches applied to organ system toxicology. Typically offered Fall. | --N/A--  | 8-24 |
| PHARMSCI | 575 | Drop   | <b>Receptor-Ligand Interactions 3</b> Interactions of drugs with biological macromolecules constituting the physicochemical basis of drug action. Typically offered Fall.  | --N/A--  | 8-24 |
| PHARMSCI | 580 | Drop   | <b>Gene and Stem Cell Therapies 3</b> Stem cell therapeutics, gene transfer vectors and methods for isolating and generating stem cells; stem cell therapeutics, presentation skills and evaluation of primary literature.   | --N/A--  | 8-24 |
| SHS      | 565 | Revise | <b>Augmentative Communication 3</b> Augmentative communication theory; implementation, training strategies, ongoing adjustments, and evaluating effectiveness. SHS graduate student; all undergraduate prerequisite courses completed.                               | <b>Augmentative Communication 2</b> Augmentative communication theory; implementation, training strategies, ongoing adjustments, and evaluating effectiveness. SHS graduate student; all undergraduate prerequisite courses completed. | 8-24 |
| SPANISH  | 450 | Revise | <b>[CAPS] [M] Seminar in Spanish Studies - Themes 3</b>  | <b>[CAPS] [M] Seminar in Spanish Studies - Themes 3</b>  | 8-24 |



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|                               |            |        | May be repeated for credit; cumulative maximum 6 credits. <del>Course Prerequisite: Two SPANISH 300-level courses excluding SPANISH 305; junior standing.</del> Seminar on important themes in Spanish studies. Taught in Spanish. Typically offered Fall and Spring.   | May be repeated for credit; cumulative maximum 6 credits. <u>Course Prerequisite: One [HUM]; one [ARTS]; two SPANISH 300-level courses excluding SPANISH 305; junior standing.</u> Seminar on important themes in Spanish studies. Taught in Spanish. Typically offered Fall and Spring.  |             |
| SPANISH                       | 451        | Revise | <b>[CAPS] [M] Seminar in Spanish Studies - Authors 3</b><br>May be repeated for credit; cumulative maximum 6 credits. <del>Course Prerequisite: Two SPANISH 300-level courses excluding SPANISH 305.</del> Seminar on important authors in Spanish studies. Taught in Spanish.  | <b>[CAPS] [M] Seminar in Spanish Studies - Authors 3</b><br>May be repeated for credit; cumulative maximum 6 credits. <u>Course Prerequisite: One [HUM]; one [ARTS]; two SPANISH 300-level courses excluding SPANISH 305; junior standing.</u> Seminar on important authors in Spanish studies. Taught in Spanish.  | 8-24        |
| SPANISH                       | 452        | Revise | <b>[CAPS] [M] Seminar in Spanish Studies - Genres 3</b><br>May be repeated for credit; cumulative maximum 6 credits. <del>Course Prerequisite: Two SPANISH 300-level courses excluding SPANISH 305.</del> Seminar on important genres in Spanish studies. Taught in Spanish. Typically offered Fall.  | <b>[CAPS] [M] Seminar in Spanish Studies - Literary Genres 3</b><br>May be repeated for credit; cumulative maximum 6 credits. <u>Course Prerequisite: One [HUM]; one [ARTS]; two SPANISH 300-level courses excluding SPANISH 305; junior standing.</u> In-depth study of literary genres within Spanish studies. Taught in Spanish. Typically offered Fall.   | 8-24        |
| <b>STAT /<br/><u>DATA</u></b> | <b>360</b> | Revise | <b>Probability and Statistics 3</b><br>Course Prerequisite: MATH 140, 171, or 202, each with a C or better, or MATH 172 or 182. Probability models, sample spaces, random variables, distributions, moments, comparative experiments, tests, correlation and regression in engineering applications. Credit not granted for both STAT 360 and 370. Typically offered Fall, Spring, and Summer. Cooperative: Open to UI degree-seeking students. | <b>Probability and Statistics 3</b><br>Course Prerequisite: MATH 140, 171, or 202, each with a C or better, or MATH 172 or 182. Probability models, sample spaces, random variables, distributions, moments, comparative experiments, tests, correlation and regression in engineering applications. Credit not granted for both STAT 360 and 370. ( <u>Crosslisted course offered as STAT 360, DATA 360</u> ). Typically offered Fall, Spring, and Summer. | <b>5-24</b> |

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|                   |     |        |  | Cooperative: Open to UI degree-seeking students.  |      |
| TCH LRN           | 409 | Revise | <del>Fundamentals of Curriculum and Assessment for Teaching English Language Learners 3</del><br>Research in curriculum development for and assessment of language minority students. Typically offered Spring.  | <u>Curriculum and Assessment for Multilingual Education 3</u><br>Research in curriculum development for and assessment of language minority students. Typically offered Spring.   | 8-24 |
| TCH LRN           | 509 | Revise | <del>Research in Curriculum and Assessment for Bilingual/ESL Education 3</del> Research in curriculum development for and assessment of language minority students.<br>Recommended preparation: TCH LRN 510; TCH LRN 549. Typically offered Fall.                    | <u>Research in Curriculum and Assessment for Multilingual Education 3</u> Research in curriculum development for and assessment of language minority students. Recommended preparation: TCH LRN 510; TCH LRN 549. Typically offered Fall. | 8-24 |
| VET PH / PHARMSCI | 555 | Drop   | <del>General and Cellular Physiology 4 (3-3)</del><br>Physiochemical mechanisms of cellular function. ( <del>Crosslisted course offered as VET PH 555, PHARMSCI 555</del> ).<br>Recommended preparation: Concurrent enrollment in MBIOS 513. Typically offered Fall. | <b>General and Cellular Physiology 4 (3-3)</b><br>Physiochemical mechanisms of cellular function. Recommended preparation: Concurrent enrollment in MBIOS 513. Typically offered Spring.  | 8-24 |