# M E M O R A N D U M

Faculty Senate approved October 6, 2022

TO: Deans and Chairs

FROM: Becky Bitter, Sr. Assistant Registrar

DATE: September 27, 2022

SUBJECT: Minor Change Bulletin No. 2

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 |
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| **COM** | **495** | **Revise** | **Communication Professional Internship** V 2-12 May be repeated for credit; cumulative maximum 12 credits. ~~Course Prerequisite: COM 300 with a C or better; admitted to a major in the College of Communication~~. Typically offered Fall, Spring, and Summer. S, F grading. | **Communication Professional Internship** V 2-12 May be repeated for credit; cumulative maximum 12 credits. Course Prerequisite: COM 101; COM 102; COM 105; COM 138; COM 210 and 300, both with a C or better; admitted to a major in the College of Communication. Typically offered Fall, Spring, and Summer. S, F grading. | **1-23** |
| **COMSTRAT** | **495** | **Revise** | **Strategic Communication Professional Internship** V 2-12 May be repeated for credit; cumulative maximum 12 credits. ~~Course Prerequisite: COM 300 with a C or better; admitted to a major in the College of Communication.~~ Typically offered Fall, Spring, and Summer. S, F grading. | **Strategic Communication Professional Internship** V 2-12 May be repeated for credit; cumulative maximum 12 credits. Course Prerequisite: COM 101; COM 102; COM 105; COM 138; COM 210 and 300, both with a C or better; admitted to a major in the College of Communication. Typically offered Fall, Spring, and Summer. S, F grading. | **1-23** |
| **HISTORY** | **319** | **Revise** | **[HUM]** ~~**United States, 1945-Present**~~ 3 ~~International and domestic impact of the Cold War, era of McCarthyism, American aspirations, tensions and conflicts in the post-~~ | **[HUM] American History 1945-1980** 3 International and domestic impact of the Cold War, Civil Rights Movements, Vietnam War, and Watergate. (Formerly HISTORY 419.) | **8-23** |

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| | | | ~~industrial era.~~ (Formerly HISTORY 419.) | | |
| **ME /MSE** | **241** | **Revise** | **Engineering Computations** 3 ~~Course Prerequisite: MATH 273 or concurrent enrollment; 4 credits of PHYSICS 201 or concurrent enrollment, or PHYSICS 201 and 211, or both with concurrent enrollment.~~ 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. | **Engineering Computations** 3 Course Prerequisite: MATH 273 with a C or better or concurrent enrollment; 4 credits of PHYSICS 201 with a C or better or concurrent enrollment, or PHYSICS 201 and 211 both with a C or better, or both with concurrent enrollment. 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. | **1-23** |
| **MSE** | **201** | **Revise** | **Materials Engineering Fundamentals** 3 ~~Course Prerequisite: CHEM 105 or concurrent enrollment.~~ Introduction to the fundamental concepts of materials engineering. Typically offered Fall, Spring, and Summer. | **Materials Engineering Fundamentals** 3 Course Prerequisite: CHEM 105 with a C or better or concurrent enrollment. Introduction to the fundamental concepts of materials engineering. Typically offered Fall, Spring, and Summer. | **1-23** |
| **MSE** | **202** | **Revise** | **Materials Science Fundamentals** 3 ~~Course Prerequisite: CHEM 106 or concurrent enrollment; MSE 201 with a C or better.~~ Introduction to the fundamental concepts of materials science. Typically offered Spring. | **Materials Science Fundamentals** 3 Course Prerequisite: CHEM 106 with a C or better or concurrent enrollment; MSE 201 with a C or better. Introduction to the fundamental concepts of materials science. Typically offered Spring. | **1-23** |
| **MSE** | **302** | **Revise** | **Electronic Materials** 3 ~~Course Prerequisite: CHEM 105; 4 credits of PHYSICS 202, or PHYSICS 202 and 212 or concurrent enrollment, or PHYSICS 206 or concurrent enrollment.~~ Structure of materials, electronic structure of solids; thermal, electrical, dielectric, and magnetic properties of materials; semiconductors processing. | **Electronic Materials** 3 Course Prerequisite: CHEM 105 with a C or better; 4 credits of PHYSICS 202 with a C or better, or PHYSICS 202 and 212 both with a C or better or concurrent enrollment, or PHYSICS 206 with a C or better or concurrent enrollment. Structure of materials, electronic structure of solids; thermal, electrical, dielectric, and | **1-23** |

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| | | | Typically offered Fall and Spring. | magnetic properties of materials; semiconductors processing. Typically offered Fall and Spring. | |
| **MSE** | **318** | **Revise** | **Materials Design** 3 ~~Course Prerequisite: ECONS 102; MSE 201 with a C or better; MSE 241; STAT 370.~~ Materials selection and processing design routes to develop new materials for engineering applications. Typically offered Spring. | **Materials Design** 3 Course Prerequisite: ECONS 102; MSE 201 with a C or better; MSE 241 with a C or better; STAT 370 with a C or better. Materials selection and processing design routes to develop new materials for engineering applications. Typically offered Spring. | **1-23** |
| **MSE** | **320** | **Revise** | **[M] Materials Structure - Properties Lab** 3 (1-6) ~~Course Prerequisite: MSE 201; MSE 202 or concurrent enrollment.~~ Principles and techniques of optical metallography and other laboratory methods used in modern materials science and engineering. Typically offered Fall. | **[M] Materials Structure - Properties Lab** 3 (1-6) Course Prerequisite: MSE 201 with a C or better; MSE 202 with a C or better or concurrent enrollment. Principles and techniques of optical metallography and other laboratory methods used in modern materials science and engineering. Typically offered Fall. | **1-23** |
| **MSE** | **321** | **Revise** | **Materials Characterization** 3 ~~Course Prerequisite: MSE 201.~~ Properties of x-rays, scattering and diffraction; crystal structures; x-ray diffraction methods, transmission electron microscopy and scanning electron microscopy. Typically offered Spring. | **Materials Characterization** 3 Course Prerequisite: MSE 201 with a C or better. Properties of x-rays, scattering and diffraction; crystal structures; x-ray diffraction methods, transmission electron microscopy and scanning electron microscopy. Typically offered Spring. | **1-23** |
| **MSE** | **323** | **Revise** | **Materials Characterization Lab** 2 (1-3) ~~Course Prerequisite: MSE 321 or concurrent enrollment.~~ Laboratory exercises on materials characterization: x-ray, TEM, SEM. Typically offered Spring. | **Materials Characterization Lab** 2 (1-3) Course Prerequisite: MSE 321 with a C or better or concurrent enrollment. Laboratory exercises on materials characterization: x-ray, TEM, SEM. Typically offered Spring. | **1-23** |
| **MSE** | **331** | **Revise** | **Metallic Materials** 3 ~~Course Prerequisite: MSE 201.~~ Major alloy systems and manufacturing processes; materials selection. Typically offered Spring. | **Metallic Materials** 3 Course Prerequisite: MSE 201 with a C or better. Major alloy systems and manufacturing processes; materials selection. Typically offered Spring. | **1-23** |

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| **MSE** | **332** | **Revise** | **Polymeric Materials** 3 ~~Course Prerequisite: MSE 201.~~ Structural characterization, syntheses, and reactions of polymeric materials; relationships between structure and properties, viscoelasticity, deformation, and physical behavior of polymers. Typically offered Fall. Cooperative: Open to UI degree-seeking students. | **Polymeric Materials** 3 Course Prerequisite: MSE 201 with a C or better. Structural characterization, syntheses, and reactions of polymeric materials; relationships between structure and properties, viscoelasticity, deformation, and physical behavior of polymers. Typically offered Fall. Cooperative: Open to UI degree-seeking students. | **1-23** |
| **MSE** | **333** | **Revise** | **Ceramic Materials** 3 ~~Course Prerequisite: MSE 201.~~ Processing, characteristics, microstructure, and properties of ceramic materials. Typically offered Spring. | **Ceramic Materials** 3 Course Prerequisite: MSE 201 with a C or better. Processing, characteristics, microstructure, and properties of ceramic materials. Typically offered Spring. | **1-23** |
| **MSE** | **404** | **Revise** | **Engineering Composites** 3 ~~Course Prerequisite: MSE 201.~~ Basic concept in design and specifications of engineering composites. Typically offered Spring. | **Engineering Composites** 3 Course Prerequisite: MSE 201 with a C or better. Basic concept in design and specifications of engineering composites. Typically offered Spring. | **1-23** |
| **MSE** | **406** | **Revise** | **Biomaterials** 3 ~~Course Prerequisite: MSE 201.~~ Overview of the different types of materials used in biomedical applications such as implants and medical devices. Credit not granted for both MSE 406 and MSE 506. (Crosslisted course offered as MSE 506 and MATSE 506.) Offered at 400 and 500 level. Typically offered Fall. | **Biomaterials** 3 Course Prerequisite: MSE 201 with a C or better. Overview of the different types of materials used in biomedical applications such as implants and medical devices. Credit not granted for both MSE 406 and MSE 506. (Crosslisted course offered as MSE 506 and MATSE 506.) Offered at 400 and 500 level. Typically offered Fall. | **1-23** |
| **MSE / ME** | **413** | **Revise** | **Mechanical Behavior of Materials** 3 ~~Course Prerequisite: CE 215 and MSE 201; OR MSE 202.~~ Elasticity, elastic stress distributions; plastic deformation of single and polycrystals; introduction to dislocation theory and its applications; creep, fracture, fatigue. (Crosslisted course | **Mechanical Behavior of Materials** 3 Course Prerequisite: CE 215 and MSE 201, both with a C or better; OR MSE 202 with a C or better. Elasticity, elastic stress distributions; plastic deformation of single and polycrystals; introduction to dislocation theory and its applications; creep, fracture, | **1-23** |

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| | | | offered as MSE 413, ME 413). Typically offered Fall. | fatigue. (Crosslisted course offered as MSE 413, ME 413). Typically offered Fall. | |
| **MSE** | **425** | **Revise** | **[M] Senior Thesis I** 3 (0-9) ~~Course Prerequisite: MSE 320; MSE 323; admitted to the major in Materials Science Engineering; senior standing, OR MSE 318; MSE 323; two from MSE 331, 332, or 333; admitted to the major in Materials Science Engineering; senior standing.~~ Research in materials science and engineering. Typically offered Fall, Spring, and Summer. | **[M] Senior Thesis I** 3 (0-9) Course Prerequisite: MSE 320 with a C or better; MSE 323 with a C or better; admitted to MSE; senior standing, OR MSE 318 with a C or better; MSE 323 with a C or better; two from MSE 331, 332, or 333 with a C or better; admitted to MSE; senior standing. Research in materials science and engineering. Typically offered Fall, Spring, and Summer. | **1-23** |
| **MUS** | **433 / 533** | **Revise** | **[ARTS] ~~Madrigal/Chamber Singers~~** 1 (0-4) May be repeated for credit. Course Prerequisite: By audition only; see music.wsu.edu for details. Study, rehearse, perform, and review original works and transcriptions for symphony orchestra; public performance each semester. Credit not granted for both MUS 433 and MUS 533. Offered at 400 and 500 level. Typically offered Fall and Spring. | **[ARTS] Chamber Singers** 1 (0-4) May be repeated for credit. Course Prerequisite: By audition only; see music.wsu.edu for details. Study, rehearse, perform, and review original works and transcriptions for symphony orchestra; public performance each semester. Credit not granted for both MUS 433 and MUS 533. Offered at 400 and 500 level. Typically offered Fall and Spring. | **1-23** |
| **MUS** | **489** | **Revise** | **Choral Methods and Materials II** 2 ~~Course Prerequisite: MUS 488.~~ Development of skills in choral arranging, curriculum construction, research, and job placement. Credit not granted for both MUS 489 and MUS 589. Offered at 400 and 500 level. Typically offered Odd Years - Spring. | **Choral Methods and Materials II** 2 Development of skills in choral arranging, curriculum construction, research, and job placement. Credit not granted for both MUS 489 and MUS 589. Offered at 400 and 500 level. Typically offered Odd Years - Spring. | **1-23** |
| **NEP** | **463** | **Revise** | **Exercise Physiology** 4 (3-3) ~~Course Prerequisite: Admitted to the major in Nutrition and Exercise Physiology.~~ Advanced undergraduate exercise physiology with emphasis on mechanisms | **Exercise Physiology** 4 (3-3) Course Prerequisite: Admitted to the major in Nutrition and Exercise Physiology, or the Master of Science Coordinated Program in Dietetics, Nutrition, and Exercise Physiology. | **8-23** |

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| | | | regulating physiological responses to acute and chronic exercise. | Advanced undergraduate exercise physiology with emphasis on mechanisms regulating physiological responses to acute and chronic exercise. | |
| **PHARMACY** | **513** | **Review** | ~~**Introductory Pharmacy Practice Experience I**~~ 1 ~~Prepares student pharmacists for community practice experience and service learning activities.~~ Typically offered Spring. S, F grading. | **Pharmacy Practice and Professional Development II** 1 Prepares student pharmacists for a focused 4-week Community Pharmacy Practice Experience. Typically offered Spring. S, F grading. | **1-23** |
| **PHARMACY** | **533** | **Review** | ~~**Introductory Pharmacy Practice Experience II**~~ 3 (0-9) ~~Authentic practice situations and service learning with opportunities for discussion and reflection.~~ Typically offered Fall. S, F grading. | **Community Introductory Pharmacy Practice Experience** 3 (0-9) Provides student pharmacists with a 160-hour Institutional Pharmacy Practice Experience with additional patient care activity assignments. Typically offered Fall. S, F grading. | **5-23** |
| **PHARMACY** | **543** | **Review** | ~~**Introductory Pharmacy Practice Experience III**~~ 1 ~~Authentic practice situations and service learning with opportunities for discussion and reflection.~~ Typically offered Spring. S, F grading. | **Pharmacy Practice and Professional Development IV** 1 Prepares student pharmacists for a focused 3-week Institutional Pharmacy Practice Experience. Typically offered Spring. S, F grading. | **1-23** |
| **PHARMACY** | **553** | **Review** | ~~**Introductory Pharmacy Practice Experience IV**~~ 3 (0-9) ~~Authentic practice situations and service learning with opportunities for discussion and reflection.~~ Typically offered Fall. S, F grading. | **Institutional Introductory Pharmacy Practice Experience** 3 (0-9) Provides student pharmacists with a 120-hour Institutional Pharmacy Practice Experience with additional patient care activity assignments. Typically offered Fall. S, F grading. | **5-23** |
| **PHARMACY** | **563** | **Review** | ~~**Introductory Pharmacy Practice Experience V**~~ 2 ~~Authentic practice situations and service learning with opportunities for discussion and reflection.~~ Typically offered Spring. S, F grading. | **Pharmacy Practice and Professional Development VI** 2 Provides student pharmacists with continuing patient care and professional development activities in preparation for the Advanced Pharmacy Practice Experience rotations. Typically offered Spring. S, F grading. | **1-23** |

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| **PSYCH** | **464** | **Revise** | **Behavior Disorders of Children and Adolescents** 3 ~~Course Prerequisite: PSYCH 361, H D 101, or H D 340.~~ Theoretical and empirical approaches to the description, etiology, and treatment of behavior disorders in children and adolescents. Recommended preparation: PSYCH 105; PSYCH 333. Typically offered Fall and Spring. | **Behavior Disorders of Children and Adolescents** 3 Course Prerequisite: PSYCH 361, H D 101, or H D 306. Theoretical and empirical approaches to the description, etiology, and treatment of behavior disorders in children and adolescents. Recommended preparation: PSYCH 105; PSYCH 333. Typically offered Fall and Spring. | **1-23** |
| **SHS** | **377** | **Revise** | ~~**Anatomy and Physiology of the Speech Production**~~ 3 Anatomical and physiological basis of speech production and the pathologies and aberrations that require the services of a communication disorders specialist. | **Anatomy/Physiology of Speech and Swallowing Mechanisms** 3 Anatomical and physiological basis of speech production and the pathologies and aberrations that require the services of a communication disorders specialist. | **8-23** |
| **SOE** | **357** | **Revise** | **Introduction to Metamorphic Rocks and Minerals and How They Impact Our World** 3 (2-3) Fundamental processes in the field of earth sciences; application of theoretical concepts from metamorphism to challenges and realities of the modern world, including climate, earthquakes, and industry. Typically offered Spring. | **Introduction to Metamorphic Rocks and Minerals and How They Impact Our World** 3 (2-3) Course Prerequisite: SOE 350. Fundamental processes in the field of earth sciences; application of theoretical concepts from metamorphism to challenges and realities of the modern world, including climate, earthquakes, and industry. Typically offered Spring. | **1-23** |
| **UNIV** | **304** | **Revise** | **Transfer Student Seminar** 2 Course Prerequisite: Sophomore standing. ~~Seminar designed for students in transition to become better acclimated to the university environment and to aid in achieving academic, personal, and career success.~~ Typically offered Fall, Spring, and Summer. | **Transfer Student Seminar** 2 Course Prerequisite: Sophomore standing. Seminar for students with transfer credit to acclimate to the university and develop skills for academic, personal, and career success. Typically offered Fall, Spring, and Summer. | **8-23** |