

MEMORANDUM

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
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. <u>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.</u> 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. <u>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.</u> 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-industrial era. (Formerly HISTORY 419.)	[HUM] American History 1945-1980 3 <u>International and domestic impact of the Cold War, Civil Rights Movements, Vietnam War, and Watergate.</u> (Formerly HISTORY 419.)	8-23

ME /MSE	241	Revise	<p>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.</p>	<p>Engineering Computations 3 Course Prerequisite: <u>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.</u> 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.</p>	1-23
MSE	201	Revise	<p>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.</p>	<p>Materials Engineering Fundamentals 3 Course Prerequisite: <u>CHEM 105 with a C or better or concurrent enrollment.</u> Introduction to the fundamental concepts of materials engineering. Typically offered Fall, Spring, and Summer.</p>	1-23
MSE	202	Revise	<p>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.</p>	<p>Materials Science Fundamentals 3 Course Prerequisite: <u>CHEM 106 with a C or better or concurrent enrollment; MSE 201 with a C or better.</u> Introduction to the fundamental concepts of materials science. Typically offered Spring.</p>	1-23
MSE	302	Revise	<p>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. Typically offered Fall and Spring.</p>	<p>Electronic Materials 3 Course Prerequisite: <u>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.</u> Structure of materials, electronic structure of solids; thermal, electrical, dielectric, and magnetic properties of materials; semiconductors processing.</p>	1-23

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

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 <u>Prerequisite: MSE 201 with a C or better.</u> 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 <u>Prerequisite: MSE 201 with a C or better.</u> 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 <u>Prerequisite: MSE 201 with a C or better.</u> 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 <u>Prerequisite: MSE 201 with a C or better.</u> 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 <u>Prerequisite: CE 215 and MSE 201, both with a C or better; OR MSE 202 with a C or better.</u> Elasticity, elastic stress distributions; plastic deformation of single and polycrystals; introduction to dislocation theory and its applications; creep, fracture,	1-23

			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) <u>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.</u> 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.	8-23
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) <u>Course Prerequisite: Admitted to the major in Nutrition and Exercise Physiology, or the Master of Science Coordinated Program in Dietetics, Nutrition, and Exercise Physiology.</u>	8-23

			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.	<u>Pharmacy Practice and Professional Development II</u> 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.	<u>Community Introductory Pharmacy Practice Experience</u> 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.	<u>Pharmacy Practice and Professional Development IV</u> 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.	<u>Institutional Introductory Pharmacy Practice Experience</u> 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.	<u>Pharmacy Practice and Professional Development VI</u> 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

PSYCH	464	Revise	<p>Behavior Disorders of Children and Adolescents 3 <u>Course Prerequisite: PSYCH 361, H D 101, or H D 340.</u> 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.</p>	<p>Behavior Disorders of Children and Adolescents 3 <u>Course Prerequisite: PSYCH 361, H D 101, or H D 306.</u> 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.</p>	1-23
SHS	377	Revise	<p>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.</p>	<p><u>Anatomy/Physiology of Speech and Swallowing Mechanisms 3</u> Anatomical and physiological basis of speech production and the pathologies and aberrations that require the services of a communication disorders specialist.</p>	8-23
SOE	357	Revise	<p>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.</p>	<p>Introduction to Metamorphic Rocks and Minerals and How They Impact Our World 3 (2-3) <u>Course Prerequisite: SOE 350.</u> 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.</p>	1-23
UNIV	304	Revise	<p>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.</p>	<p>Transfer Student Seminar 2 Course Prerequisite: Sophomore standing. <u>Seminar for students with transfer credit to acclimate to the university and develop skills for academic, personal, and career success.</u> Typically offered Fall, Spring, and Summer.</p>	8-23