

UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 1

Fall 2026

---COURSES---

Course information under the heading titled *Current* will show strikethroughs for deletions, and text under *Proposed* will show underlines for additions. The column to the far right indicates the date each change becomes effective.

Subject	Course Number	New Revise Drop	Current	Proposed	Effective Date
AI		New	--N/A--	New subject/prefix “AI” for Artificial Intelligence	8-27
BME		New	--N/A--	New subject/prefix “BME” for Biomedical Engineering	8-27
BME	101	New	--N/A--	Introduction to Biomedical Engineering I 1 Overview of current topics, issues, and careers in Biomedical Engineering. Typically offered Fall. S,F grading. Syllabus: https://wsu.instructure.com/courses/1950323	8-27
BME	102	New	--N/A--	Introduction to Biomedical Engineering II 1 Overview of current topics, issues, and careers in Biomedical Engineering. Typically offered Spring. S,F grading. Syllabus: https://wsu.instructure.com/courses/1950388	8-27
BME	201	New	--N/A--	Biomedical Engineering Fundamentals 3 Course Prerequisite: CHEM 106; MATH 172; PHYSICS 201 or concurrent enrollment. Fundamental Biomedical Engineering problem-solving techniques with applications of momentum, charge, material, and energy balances. Typically offered Fall. Syllabus: https://wsu.instructure.com/courses/1950325	8-27
BME	401	New	--N/A--	[M] Biomedical Engineering Regulatory and Quality Science 3 Course Prerequisite: BME 301 (or approved alternative professional ethics course); STAT 370 (or approved alternative statistics course). Skills for	1-28

				working in life sciences industry with emphasis on manufacturing of pharmaceuticals, biologics, and medical devices, including validation, quality control, and manufacturing processes focusing on testing, systems evaluations, FDA compliance, and reporting. Typically offered Spring. Syllabus: https://wsu.instructure.com/courses/1950481	
CHE	451	Revise	[CAPS] [M] Chemical Process Analysis and Design II 3 Course Prerequisite: CHE 450 with a C or better; junior standing. Development, design, and economic evaluation of chemical and related processes as practiced in industry. Typically offered Spring.	[CAPS] [M] Chemical Process Analysis and Design II 3 (0-6) Course Prerequisite: CHE 450 with a C or better; junior standing. Development, design, and economic evaluation of chemical and related processes as practiced in industry. Typically offered Spring. Syllabus: https://wsu.instructure.com/courses/1949995	1-27
KIN ACTV	104	New	--N/A--	Tactical Strength and Conditioning V 1 (0-2) to 2 (0-4) May be repeated for credit; cumulative maximum 4 credits. Typically offered Fall, Spring, and Summer. S, F grading. Syllabus: https://wsu.instructure.com/courses/1939161	1-27
ME	473	New	--N/A--	Value Stream Engineering and Lean Manufacturing 3 (2-3) Course Prerequisite: ME 312. Fundamentals of manufacturing processes, product-based manufacturing process design, value-stream mapping, and lean manufacturing principles. Typically offered Fall and Spring. Syllabus: https://wsu.instructure.com/courses/1868007	1-27
MECH	101	Revise	Introduction to Mechanical Engineering 2 Course Prerequisite: MATH 171 or concurrent enrollment.	<u>Mechanical Engineering Fundamentals 3</u> Course Prerequisite: MATH 171 or concurrent enrollment. <u>Introduction to the mechanical engineering profession, fundamentals of mechanics, engineering ethics.</u>	1-27

			Introduction to mechanical engineering profession, engineering problem solving, computers in engineering design methods. Typically offered Spring.	<u>Resources, opportunities, and knowledge and skills necessary to succeed in engineering.</u> Syllabus: https://wsu.instructure.com/courses/1935168	
MECH	251	Revise	Numerical Computing for Engineers 2 Course Prerequisite: MATH 172 or 182, or concurrent enrollment; 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.	Numerical Computing for Engineers 3 Course Prerequisite: MATH 172 or 182, or concurrent enrollment; 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. Syllabus: https://wsu.instructure.com/courses/1903327	1-27
MECH	416	Revise	[M] Mechanical Systems Design I 2 Course Prerequisite: MECH 310; MECH 404; MECH 414 or concurrent enrollment. First term of the year-long capstone design; integrative design in mechanical engineering; multidisciplinary design project considering technical and nontechnical contexts. Typically offered Fall.	[M] Mechanical Systems Design I 3 Course Prerequisite: MECH 310; MECH 404; MECH 414 or concurrent enrollment. First term of the year-long capstone design; integrative design in mechanical engineering; multidisciplinary design project considering technical and nontechnical contexts. Typically offered Fall. Syllabus: https://wsu.instructure.com/courses/1902289	1-27
MSE	411	New	--N/A--	Semiconductor Processing and Fabrication 3 (2-3) Course Prerequisite: MSE 302. Introduction to semiconductors and semiconductor fabrication process, including	8-27

				oxidation, diffusion, photolithography, plasma and acid etching, thin film deposition, and device fabrication. Typically offered Fall. Syllabus: https://wsu.instructure.com/courses/1935411	
MSE / ME	431	New	--N/A--	Nanoscale Materials and Nanotechnology 3 Introduction to nanoscience, nanoscale materials, and modern nanotechnology including structure, fabrication, and applications. (Crosslisted course offered as MSE 431, ME 431.) Typically offered Spring. Syllabus: https://wsu.instructure.com/courses/1936743	1-27
MSE / ME	463	New	--N/A--	Fission and Fusion Materials 3 Course Prerequisite: MSE 201. Understanding key mechanisms affecting material behavior in fission and fusion reactors, material degradation mechanisms, development of irradiation-tolerant materials, nuclear fuel cycle and waste management strategies. (Crosslisted course offered as MSE 463, ME 463.) Typically offered Fall. Syllabus: https://wsu.instructure.com/courses/1935473	1-27
MUS	457	Revise	Seminar in Jazz Arranging/Composition 2 Course Prerequisite: MUS 257. Arranging and composing for instrumental jazz ensembles. Typically offered Odd Years – Fall.	Jazz Arranging 2 (0-6) Course Prerequisite: MUS 257. <u>Advanced techniques in arranging, orchestration, theory, and form analysis for jazz from the 1930s to the 1990s and instrumentation ranging from small ensembles to large orchestras.</u> Syllabus: https://wsu.instructure.com/courses/1908867	1-27
NEP	202	New	--N/A--	Modern Concepts in Human Health: Nutrition Science and Policy for Health Professionals 3 Course Prerequisite: BIOLOGY 101 or BIOLOGY 106 or equivalent. Concepts and controversies surrounding the latest Dietary	1-27

				Guidelines for Americans, lifecycle nutrition, nutrition care and support, Medical Nutrition Therapy (MNT) including enteral and parenteral support, and management and treatment of nutrition-related diseases. Syllabus: https://wsu.instructure.com/courses/1911423	
NEP	485	New	--N/A--	Modern Concepts in Human Health: Nutrition Policy and Public Health 3 Course Prerequisite: NEP 101 or NEP 202. Nutrition policies, policies that address other social determinants of health, research design and methods to evaluate policies, and impact of policies on population health. Typically offered Fall and Spring. Syllabus: https://wsu.instructure.com/courses/1932199	1-27
PHARMEDS	420	Revise	--N/A--	Foundational Human Immunology 3 Foundations of human immunology for the health sciences including immune system components and processes, innate and adaptive immunity, pathogen response, autoimmunity, vaccinations, and cancer immunotherapy. Recommended preparation: TMP 350 or a similar course in biochemistry. Syllabus: https://wsu.instructure.com/courses/1938081	1-27
PHIL	240	New	--N/A--	AI Ethics 3 How to live, learn, and work in a world increasingly influenced by artificial intelligence, examining ethical issues related to the development and use of AI, such as cognitive offloading, algorithmic bias, human-AI relationships, the Alignment Problem, and the Responsibility Gap. Typically offered Fall in Spring. Syllabus: https://wsu.instructure.com/courses/1919549	5-27
PUBHLTH	495	Revise	Public Health Internship V 1-3 May	Public Health Internship V 1-4 May be repeated for credit; cumulative	1-27

			be repeated for credit; cumulative maximum 4 hours. Course Prerequisite: By department permission. Internship with a public health agency, a nonprofit organization, or a private sector company that aligns with the student's chosen career path. S, F grading.	maximum 4 credits. Course Prerequisite: By department permission. Internship with a public health agency, a nonprofit organization, or a private sector company that aligns with the student's chosen career path. S, F grading. Syllabus: https://wsu.instructure.com/courses/1792658	
TCH LRN	469	Revise	Pre-Internship for Secondary Teachers V 2 (0-6) to 3 (0-9) Course Prerequisite: TCH LRN 317. Field experience with classroom observation and teaching prior to student teaching; weekly seminar included. Typically offered Fall and Spring. S, F grading.	Pre-Internship for Secondary Teachers V 2 (0-6) to 3 (0-9) <u>May be repeated for credit; cumulative maximum 6 credits.</u> Course Prerequisite: TCH LRN 317. Field experience with classroom observation and teaching prior to student teaching; weekly seminar included. Typically offered Fall and Spring. S, F grading. Syllabus: https://wsu.instructure.com/courses/1936534	8-27