

UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 6

Spring 2022

Faculty Senate approved February 17, 2022

---COURSES---

The courses listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All new and revised courses are printed in their entirety under the headings Current and Proposed, respectively. The column to the far right indicates the date each change becomes effective. Note: Items marked {S} have been streamlined and do not require Catalog Subcommittee review.

Subject	Course Number	New Revise Drop	Current	Proposed	Effective Date
CPT S	428	New	--N/A--	Advanced Cyber Security 3 Course Prerequisite: CPT S 327 with a C or better. Key aspects of cyber security with an emphasis on software and systems security focusing on concepts, principles, methodologies, and techniques for measuring and defending the various security properties of both operating systems and application software. Credit not granted for both CPT S 428 and CPT S 528. Offered at 400 and 500 level. Typically offered Spring.	8-22
ECE	478	New	--N/A--	Introduction to CMOS Integrated Circuit Design 3 Course Prerequisite: ECE 214; ECE 325. CMOS integrated circuit design including MOS transistors, combinational and sequential circuit design and layout, gate and interconnect delay modeling, power estimation, clock distribution, datapath and memory design, testing, and design-for-test. Typically offered Fall.	8-22
HORT	345	New	--N/A--	Crop Plant Genetics 3 Course Prerequisite: BIOLOGY 106, 107, 120, or HORT/CROP SCI 202. Key principles of genetics for crop plants: Mendelian, transmission, population, and quantitative genetics; the genetic consequences of types of	8-22

				reproductive systems; genetic diversity sources and resources; applied crop plant genetics areas of biodiversity management, breeding, and on-farm cultivar choice/management; integration of crop plant genetics in the broader context of crop improvement. Typically offered Fall. Cooperative: Open to UI degree-seeking students.	
PHIL	450	Revise	Data Analytics Ethics 3 Course Prerequisite: Junior standing. Ethical issues concerning the collection, use, and dissemination of data. Typically offered Spring.	[HUM] Data Analytics Ethics 3 Course Prerequisite: Junior standing. Ethical issues concerning the collection, use, and dissemination of data. Typically offered Spring.	8-22
UNIV	394	New	--N/A--	Research Skills V 1-2 May be repeated for credit; cumulative maximum 4 hours. Basic research skills including developing experiments, reading literature, building mentor/mentee relationship. Typically offered Fall and Spring.	8-22
UNIV	494	New	--N/A--	Advanced Research Skills V 1-2 May be repeated for credit; cumulative maximum 4 hours. Course Prerequisite: UNIV 394; admitted to the MARC-WSU program. Advanced research skills including research ethics, science communication, building professional networks. Typically offered Fall and Spring.	8-22