

**UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 6**

**Spring 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.

<b>Subject</b>	<b>Course Number</b>	<b>New Revise Drop</b>	<b>Current</b>	<b>Proposed</b>	<b>Effective Date</b>
<b>CPT S</b>	<b>428</b>	<b>New</b>	<b>--N/A--</b>	<b>Advanced Cyber Security 3 Course</b> 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.	<b>8-22</b>
<b>ECE</b>	<b>478</b>	<b>New</b>	<b>--N/A--</b>	<b>Introduction to CMOS Integrated Circuit Design 3 Course</b> 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.	<b>8-22</b>
<b>HORT</b>	<b>345</b>	<b>New</b>	<b>--N/A--</b>	<b>Crop Plant Genetics 3 Course</b> 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 reproductive systems; genetic diversity sources and resources;	<b>8-22</b>

				<p>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.</p>	
<b>PHIL</b>	<b>450</b>	<b>Revise</b>	<p><b>Data Analytics Ethics 3 Course</b> Prerequisite: Junior standing. Ethical issues concerning the collection, use, and dissemination of data. Typically offered Spring.</p>	<p><b>[HUM] Data Analytics Ethics 3 Course</b> Prerequisite: Junior standing. Ethical issues concerning the collection, use, and dissemination of data. Typically offered Spring.</p>	<b>8-22</b>
<b>UNIV</b>	<b>394</b>	<b>New</b>	--N/A--	<p><b>Research Skills V 1-2</b> 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.</p>	<b>8-22</b>
<b>UNIV</b>	<b>494</b>	<b>New</b>	--N/A--	<p><b>Advanced Research Skills V 1-2</b> May be repeated for credit; cumulative maximum 4 hours. Course Prerequisite: UNIV 399; admitted to the MARC-WSU program. Advanced research skills including research ethics, science communication, building professional networks. Typically offered Fall and Spring.</p>	<b>8-22</b>