COLLEGE OF NATURAL RESOURCES AND ENVIRONMENT Department of Sustainable Biomaterials Bachelor of Science in Packaging Systems and Design Major in Packaging Systems and Design For students graduating in calendar year 2022 and for student date of entry under UG Catalog 2020-2021

Minimum credit hours required for graduation is 120.

Packaging Systems and Design Degree Core Requirements – 37/38 credit hours

SBIO 1014 Introduction to Packaging Systems and Design (1) SBIO 2004 CAD in Packaging (3) SBIO 2104 Principles of Packaging (3) SBIO 3124 Paper and Paperboard Packaging (3) (Pre: SBIO 2104. Co: SBIO 2004) SBIO 3224 Packaging Distribution Systems (3) (Pre: SBIO 2104) SBIO 3284 Packaging Polymers and Production (3) (Pre: SBIO 2104) SBIO 3464 Forest Products Business Systems (3) (Pre: SBIO 2614) SBIO 4024 Packaging Design for Global Distribution (3) (Pre: SBIO 3224) SBIO 4054 Packaging Systems Design Practicum (3) (Pre: Senior standing) SBIO 4214 Food and Health Care Packaging (3) (Pre: SBIO 3124, SBIO 3284) SBIO 4224 Wood Pallet, Container & Unit Load Design (3) (Pre: SBIO 3224, SBIO 4024)
Choose one: SBIO 2124 Structure and Properties of Sustainable Biomaterials (3) (Pre: BIOL 1105, CHEM 1035) SBIO 3434 Chemistry and Conversion of Sustainable Biomaterials (3) (Pre: CHEM 1036)
Choose one: —— SBIO 3314 Mechanics of Sustainable Biomaterials and Packaging (4) (Pre: MATH 1016, PHYS 2205) —— CHEM 2514 Survey of Organic Chemistry (3) (Pre: (1035 or 1055 or 1055H), (1036 or 1056 or 1056H), (1045 or 1065), (1046 or 1066))
Marketing – 3 credit hours MKTG 3104 Marketing Management (3) (Pre: Junior standing)
Chemical and Physical Sciences – 7 credit hours BIOL 1115 Principles of Biology Laboratory (1) (Co: BIOL 1105) CHEM 1036 General Chemistry (3) (Co: MATH 1025 or MATH 1225; Pre: CHEM 1035 or CHEM 1055 or CHEM 1055 or CHEM 1055H) PHYS 2205 General Physics (3) (Pre: MATH 1016 or MATH 1016H or MATH 1025 or MATH 2015 or MATH 1026 or MATH 1205 or MATH 1205H or MATH 1525 or MATH 1535 or MATH 1225 or MATH 1225H)
Free electives – 26/27 credit hours

Pathways Requirements – 46 credit hours

Pathways Concept 1: Discourse (6 foundational credits, 3 applied/advanced credits) ENGL 1105 First-year Writing (foundational) (3) ENGL 1106 First-year Writing (foundational) (3) (Pre: ENGL 1105) ENGL 3764 Technical Writing (applied/advanced) (3) (Pre: Junior standing; ENGL 1106 or 1204H or COMM 1016)
Pathways Concept 2: Critical Thinking in the Humanities (6 credits) Concept 2 course: Concept 2 course:
Pathways Concept 3: Reasoning in the Social Sciences (6 credits) ECON 2005 Principles of Economics (3) ECON 2006 Principles of Economics ((3) Pre: ECON 2005)
Pathways Concept 4: Reasoning in the Natural Sciences (7 credits) BIOL 1105 Principles of Biology (3) (Co: BIOL 1115) CHEM 1035 General Chemistry (3) CHEM 1045 General Chemistry Lab (1) (co: CHEM 1035)
Pathways Concept 5: Quantitative and Computational Thinking (6 foundational credits, 3 applied/advanced credits) MATH 1025 Elementary Calculus (foundational) (3) STAT 2004 Introductory Statistics (foundational) (3) (Pre: MATH 1014 or MATH 1025 or MATH 1524 or MATH 1525) Concept 5 applied/advanced course:
Pathways Concept 6: Critique and Practice in Design and the Arts (6 credits) Choose a 3-credit DESIGN or INTEGRATED course from the approved list
Choose a 3-credit ART <u>or</u> INTEGRATED course from the approved list
Pathways Concept 7: Critical Analysis of Identity and Equity in the United States (3 credits) – may be double-counted with another core outcome or major requirement)

___ Concept 7 course:_____

Satisfactory Progress

By the end of the semester in which the student has attempted 60 hours (including transfer, advanced placement, advanced standing, and credit by examination), "satisfactory progress" towards a B.S. degree in the College of Natural Resources and Environment will include the following minimum criteria:

- Having a grade point average of at least 2.0
- Passing at least 24 semester credits that apply to the Curriculum for Liberal Education
- Passing the required 1000-level courses in Biology, Chemistry, English, and Math

Foreign Language Requirement

__ 2 years of one language in high school or __ FL 1105 and 1106 if less than two years of one language in high school

Sequencing

Courses should be taken in a sequence that ensures that prerequisite or co-requisite requirements are met. Free elective courses may also have prerequisite requirements. Students should plan ahead and ensure that they have completed prerequisites or are enrolled in co-requisite courses. If a student chooses to take CHEM 2514 Survey of Organic Chemistry, then they must also complete CHEM 1046 or CHEM 1066 in addition to the other prerequisites for this course. Some courses required for this major have prerequisites. Please refer to Undergraduate Course Catalog or consult your advisor for information about prerequisite requirements.

In-major GPA computation

Includes all courses designated SBIO. The acceptable cumulative minimum is 2.0