

UNDERGRADUATE CERTIFICATE REMOTE SYSTEMS SCIENCE AND TECHNOLOGY (RSST)

Academic Course Descriptions

RSST 2010. INTRODUCTION TO REMOTE SYSTEMS SCIENCE AND TECHNOLOGY. (3-2-1). Overview of remote systems technology. This course will cover small unmanned aerial systems (sUAS), remote operated vehicles (ROV), and other remote operated technology. Emphasis will be placed on emerging workforce needs and practical applications of remotely operated technology.

RSST 3010. REMOTE SYSTEMS OPERATIONS, LAW AND POLICY. (2-2-0). This course will cover the laws, regulations and policies governing small, unmanned aircraft (sUAS) operation and prepare students for the FAA part 107 Remote Pilot Certification Exam. Content will include flight operations, interpreting aeronautical sectional charts, weather, aeronautical communications, aeronautical decision making (ADM), risk management, airspace classification, and sUAS maintenance.

RSST 4010. ADVANCED REMOTE SYSTEMS SCIENCE AND TECHNOLOGY. (3-2-1). This course will instruct students in advanced operations of various remotely operated systems. Course content will include the scientific theory behind various sensor platforms, advanced mission planning, introduction to data analytics and rendering. Students will be introduced to industry leaders currently using remote systems technology and will learn how remote systems technology is integrated into the modern workflow.

REQUIRED HOURS (12 hours):

RSST 2010: Introduction to Remote Systems Science and Technology (3-2-1)

BIOL/GEOG 2030: Introduction to Geographic Information Systems (3-3-0)

BIOL/GEOG 2031: Introduction to Geographic Information Systems Laboratory (1-0-3)

RSST 3010: Remote Systems Operations, Law, and Policy (2-2-0)

RSST 4010: Advanced Remote Systems Science and Technology (3-2-1)

ELECTIVE HOURS (choose 6 hours as approved by major's department head or advisor):

ANTH/RSST 4XXX: Remote Systems Science and Technology Applications for Archaeology and Anthropology (3-3-0) [NEW CLASS IN DEVELOPMENT]

ANTH 4200: Field Techniques in Underwater Archaeology (3-3-0)

ANTH 4060: Special Problems (3-3-0)

BIOL/RSST 4XXX: Remote Systems Science and Technology Applications for Biological Sciences (3-3-0) [NEW CLASS IN DEVELOPMENT]

BIOL 3900: Special Topics in Biology (1 to 3-1 to 3-0)

BIOL 3901: Special Topics in Biology Laboratory ((1 to 3-0-1 to 9)

BUAD 4190: Small Business Entrepreneurship (3-3-0)

CIS 3410: Certified Ethical Hacking (3-3-0)

CIS 4700: Topics in Information Technology Hardware and Software (3-3-0)

COMM 4420: Advanced Video Journalism (3-3-0)

COMM 4520: Special Problems in Communication (3-3-0)

COMM 4470: Television Producing/Directing Activities (3-3-0)

CJ 4110: Special Problems

EET 4920: Advanced Special Problems (1 to 3-0-0)
EET 4940: Project Design I (2-2-0)
EET 4950: Project Design II (2-0-0)
ENGL 3530: Video Production (3-3-0)
ENGL 4340: Ethnographic and Documentary Filmmaking (3-3-0)
ENGL 4040: Advanced Technical Report Writing (3-3-0)
GEOG 4010: Advanced Geographic Information Systems (3-3-0)
GEOG 4011: Advanced Geographic Information Systems Laboratory (1-0-3)
HMT 4110: Special Topics in Hospitality Management and Tourism (1 to 3-3-3)
IET 4920: Special Problems (1 to 3-0-0)
IET 4950: Research Methods (1 to 3-0-0)
IET 4960: Project Design II (2-0-0)
MGT 4450: Purchasing and Supply Management (3-3-0)
MGT 4460: Supply Chain Management (3-3-0)
UPSA 4700: Venue and Event Security (3-3-0)