BACHELOR OF TECHNOLOGY

❖ 107- APPLIED TECHNOLOGY (TECH)
❖ 107F-OPTION: CYBERSECURITY AND INFORMATION ASSURANCE (TECY)
107U-OPTION: UNMANNED AIRCRAFT SYSTEMS (TEUA)
❖ These degree options are offered online at www.rsuonline.edu

The degree program consists of 43 hours in general education, 30 hours (minimum) in a technical specialty, 43 hours in the professional program core, and 4 hours of electives.

The Applied Technology option is designed to provide educational opportunities for individuals who possess an Associate in Applied Science degree or equivalent military experience and need additional education in order to perform job requirements or to advance their professional careers.

The Cybersecurity and Information Assurance option is based on the National Cybersecurity Workforce Framework provided by DHS and NSA and is the foundation for increasing size and capability of the U.S. cybersecurity workforce. This option provides students knowledge and required abilities for performing technical analyses of computer incidents and intrusions to determine source, infiltration path, mechanism, system modifications and effects.

The Unmanned Aircraft Systems Option provides the technological skills to design, build (3D print), and fly a UAV as well as required knowledge to take the FAA Part 107 Pilot’s License Examination. This option additionally provides the education required of one to start and run and independent business (UAS services).

The National Security for Information Technologies Option is designed to support the Educational Partnership Agreement (EPA) between RSU and the National Security Agency (NSA). This agreement provides for RSU students to have one-on-one mentorship with an NSA Analyst throughout their education as well as internships with the NSA.

REQUIRED HOURS ........................................ 120
UNIV 1152 The University Experience ............... 2
Communications............................................ 9
ENGL 1113 Composition I
ENGL 1213 Composition II
SPCH 1113 Speech Communication

Social and Behavioral Sciences ........................... 9
History ......................................................... 3
Select from the following:
HIST 2483 American History to 1877
HIST 2493 American History since 1877
POLS 1113 American Federal Government ..... 3

Social Science ............................................... 3
Select from the following:
ECON 2113 Principles of Macroeconomics
ECON 2123 Principles of Microeconomics
PSY 1113 Introduction to Psychology

Science and Mathematics .................................. 11
Biological Science .......................................... 4
Select from the following:
BIOL 1114 General Biology
BIOL 1134 Introduction to Environmental Science
BIOL 1144 General Cellular Biology

Physical Science ............................................ 4
Select from the following:
CHEM 1104 Principles of Chemistry
CHEM 1315 General Chemistry I
GEOL 1014 Earth Science
GEOL 1114 Physical Geology
GEOL 1124 Physical Geography
GEOL 1224 Historical Geology
GEOL 2124 Astronomy
PHYS 1014 General Physical Science
PHYS 1114 General Physics I

Mathematics ................................................. 3
Select from the following:
MATH 1413 Introduction to Statistics
MATH 1423 Functions and Modeling
MATH 1503 Mathematics for Critical Thinking
MATH 1513 College Algebra
MATH 1613 Trigonometry
MATH 1715 Pre-Calculus
MATH 2264 Analytical Geometry & Calculus I

Humanities ..................................................... 6
Select from the following:
ART (HUM) 1113 Art Appreciation
COMM (HUM) 2413 Theatre Appreciation
ENGL 2613 Introduction to Literature
HUM 2113 Humanities I
HUM 2223 Humanities II
HUM 2893 Cinema
MUSC (HUM) 2573 Music Appreciation
PHIL 1113 Introduction to Philosophy

Global Studies .............................................. 3
Select from the following:
BIOL 3103 Plants and Civilization
BIOL 3203 Bioethics
ECON 3003 International Economic Issues and Policies
GEOG 2243 Human Geography
GERM 1113 Beginning German I
HIST 2013 World Geography
HIST 2023 World Civilization II
HUM 3633 Comparative Religion

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LANG  1113  Foundations of World Languages
MGMT  3033  Conflict Resolution: I’m Always Right!
NAMS  1143  Native Americans of North America
NAMS  2503  Cherokee I
PHIL  1313  Values and Ethics
POLs  3053  International Relations
SOC   3213  Minority Groups
SPAN  1113  Beginning Spanish I

Elective .......................................................... 3
Select three additional hours from the courses listed above and not previously selected.

Program Requirements
Program Core Courses .............................................. 31
ACCT  2103  Accounting I - Financial
BADM  3113  Business Communications
BADM  3323  Legal Environment of Business
CS    1113  Microcomputer Applications
IT    4353  Information Assurance and Security Management
MGMT  3013  Principles of Management
MKTG  3113  Principles of Marketing
TECH  3013  Leadership and Decision-Making Skills
TECH(SMCT)  3213  Enterprise Resource Management Systems
TECH  4504  Practicum and Capstone Experience

Applied Technology .............................................. 12
CS    3213  Multimedia Development
MGMT  3423  Management Information Systems
TECH  3023  Emerging Technologies
TECH  3203  Introduction to Risk Management

Technical Specialty ................................................. 30
A cohesive program of study in a technical field that fulfills the requirements of an Associate in Applied Science (A.A.S.), Associate in Science (A.S.), or the equivalent.

Cybersecurity and Information Assurance Option............. 12
CJ    4413  Evidentiary Standards
IT    3333  Cybersecurity Investigations
IT    4373  Information Assurance Regulations and Ethics
IT    4443  Fundamentals of Information and Cybersecurity

Technical Specialty ................................................. 30
A cohesive program of study in a technical field that fulfills the requirements of an Associate in Applied Science (A.A.S.), Associate in Science (A.S.), or the equivalent and at least 15 credit hours must be CS, CJ, and/or IT and seven (7) of which must include:

IT    1411  Orientation to Computer Technology
IT    2143  Introduction to Networking
IT    2163  Introduction to Computer Forensics and Investigations
CJ    3013  Criminal Procedures

National Security for Information Technologies Option..12
HIST  3653  War and Technology
POLs  3083  Intelligence, Politics, and Public Policy
POLs  4033  American Foreign Policy
POLs  4103  National Security Strategy

Unmanned Aircraft Systems Option .............................. 12
MKTG  3313  E-Marketing
FINA  3503  Principles of Finance
ENTR  3303  Entrepreneurial Finance
ENTR  4323  Managing the Growing Business

Technical Specialty ................................................. 30
A cohesive program of study in a technical field that fulfills the requirements of an Associate in Applied Science (A.A.S.), Associate in Science (A.S.), or the equivalent and at 15 of the required 30 Technical Specialty credit hours must include:

TECH  1030  Unmanned Aircraft Systems (UAS) Design and Build (3-credits)
TECH  2020  Unmanned Aircraft Systems (UAS) Flight Operations (3-credits)
TECH  2090  Field Internship (3-credits)
ACCT  2203  Accounting II - Managerial
ENTR  3233  Marketing for the Entrepreneur

Free Electives .................................................... 4
Electives will be chosen to complete the 120 credit hours required for graduation.

Total Credit Hours ................................................ 120
*Applied Technology Option requires three credit hours of upper-division. This requirement may be met by taking an upper division course in general education or free electives.