



THE COLLEGE OF ARTS AND SCIENCES

Bachelor of Science in Systems Engineering

Spring-Summer 2020 Academic Degree Plan

GENERAL EDUCATION COURSES (49 hours)

Biblical Worldview- Cornerstone & Capstone: All Required

- GENE 100 The Making of a Christian Mind (3)
- GENE 402 The Making of a Christian Leader (3)

Biblical Worldview- Christian: All Required

- BIBL 105 Introduction to Bible (3)
- BIBL 106 Christian Doctrine (3)◇
- BIBL 111 Intro. to Christian History & Thought (3)

Written & Oral Communication: All Required

- UNIV 100 Regent Foundations of Success (3)
- ENGL 101 English Composition (3)

Critical Thinking & Analysis: All Required

- ENGL 102 Research & Academic Writing (3)
- GENE 150 The True, the Good, & the Beautiful (3)

Literature Course: Required

- ENGL 205 Literature of the Western World (3)

Arts Course: Required

- GENE 200 Art and Culture (3)

Mathematics Course: Required

- MATH 211 Calculus I (4)

Natural Science Course with Lab: Required

- PHYS 221 General Physics I (4) ◇

U.S. History Course: Select 1

- HIST 201 U.S. History I to 1877 (3)
- HIST 202 U.S. History II from 1877 (3)

Economics Course: Select 1

- ECON 101 Introduction to Economics (3)

◇ Prerequisite required; See catalog

*UNIV 100 must be taken by online students

*COMM 110 must be taken by on campus students

GENERAL EDUCATION COURSES & MAJOR REQUIREMENTS

Global Studies Course: Select 1

- GEOG 101 World Geography (3)
- HIST 205 Western Civilization I (3)
- HIST 206 Western Civilization II (3)
- HIST 211 World History I (3)
- HIST 212 World History II (3)
- SPAN 101 Introduction to Spanish I (4)
- SPAN 102 Introduction to Spanish II (4)
- SPAN 210 Intermediate Spanish I (3)
- SPAN 211 Intermediate Spanish II (3)

Systems Engineering Courses: All Required (54 hours)

- CSCI 201 Introduction to Computer Science (3)
- ENGR 201 Engineering Foundations I (3)
- ENGR 202 Engineering Foundations II (3) ◇
- ENGR 210 Engineering Ethics and Profession (3) ◇
- ENGR 220 Systems Thinking and Approach (3)
- ENGR 230 Modeling, Analysis and Design (3) ◇
- ENGR 491 Engineering Capstone I (3)
- ENGR 492 Engineering Capstone II (3) ◇
- SYEN 201 Systems Engineering Fundamentals (3) ◇
- SYEN 310 Systems Requirements & CONOPS (3) ◇
- SYEN 320 Systems Architecting (3) ◇
- SYEN 330 Model Centric Systems Engineering (3) ◇
- SYEN 340 Systems Integration, V&V, Test (3) ◇
- SYEN 350 Systems Lifecycle Management (3) ◇
- SYEN 410 Systems Characteristics (3) ◇
- SYEN 420 Systems Engineering Workforce Dev (3) ◇
- SYEN 430 Systems Engineering Applications (3) ◇
- Department Elective: _____ (3)

Math and Basic Science Courses: All Required (22 hours)

- MATH 212 Calculus II (4) ◇
- MATH 230 Linear Algebra (3) ◇
- MATH 250 Prob, Stats, and Quant Methods (3)
- MATH 251 Quantitative Methods Lab (2) ◇
- MATH 320 Differential Equations (3) ◇
- NSCI 110 Origins of the Cosmos (3)
- PHYS 222 General Physics II (4) ◇

<input type="checkbox"/> General Education Credit Hours	49 +
<input type="checkbox"/> Systems Engineering Credit Hours	54
<input type="checkbox"/> Math and Basic Science Credit Hours	22
Total Hours	125+

Notes

- Minimum of 125 credits required
- 50% of major requirements must be taken at Regent University
- Check the course descriptions in the Catalog, as well as, the course schedule for classes that have prerequisites
- Regent University has the right to add to or change this worksheet. **This Degree Worksheet is an unofficial document.**
- Catalog policy: Students may use a general education requirement to satisfy a major requirement but may not double count the credit hours.

RECOMMENDED FIRST 2 YEARS AT REGENT:**FRESHMAN YEAR**Spring Term 1

GENE 100	3
BIBL 105	3
BIBL 111	3
ENGL 101	3
COMM 110/UNIV 100	3
Total	15

Fall Term 1

GENE 200	3
BIBL 106	3
ENGL 102	3
MATH 211	4
GENE 150	3
Total	16

SOPHOMORE YEARSpring Term 2

SYEN 201	3
MATH 212	4
ENGL 205	3
CSCI 201	3
HIST 201/HIST 202	3
Total	16

Fall Term 2

PHYS 221	4
ENGR 201	3
ECON 101	3
MATH 250	3
Global Studies Course	3
Total	16

Summer Term 2

NSCI 110	3
Total	3