Bachelor of Science in Robotics Engineering (BSRE) Flowchart (Fall 2019, 136 credit hours)

**FRESHERAN** 15 credit hours

- MCS1414 Calculus 1
- PHY2413 University Physics 1
- MCS1074
- COM 0094
- MCS1514 Computer Science 1
- SSC2413 Foundations of American Exper.
- COM1103 College Composition
- LLT1213 World Masterpieces 1
- MCS1424 Calculus 2
- MCS2514 Computer Science 2
- EME2012 Mechanical Eng. Graphics
- EGE2013 Statics

**SOPHOMORE** 17 credit hours

- MCS2414 Calculus 3
- MRE1011 Foundations of Robotics Eng.
- MRE1014 Unified Robotics I
- MRE1016 Unified Robotics II
- MRE1017 Unified Robotics III
- MRE1018 Unified Robotics IV
- COM2103 Tech. & Prof. Communication
- EGE2013 Statics
- MCS2523 Discrete Mathematics
- MRE2024 Unified Robotics I
- MRE3014 Unified Robotics II
- MRE3024 Unified Robotics III
- MRE4014 Unified Robotics IV
- EME2012 Mechanical Eng. Graphics
- EGE3012 Engineering Cost Analysis

**JUNIOR** 18 credit hours

- COM 1103
- MCS 1414
- EEE2214 Digital Elect. and Lab.
- EME3112 Introduction to Projects
- EME3114 Leadership & Prof. Develop. for Eng.
- EGE3012 Engineering Cost Analysis
- SSC2423 Development of American Exper.
- MCS3863 Linear Algebra
- COM3000 Writing Proficiency Exam
- LLT1223 World Masterpieces 2
- MCS3403 Probability & Statistics
- EME3114 Leadership & Prof. Develop. for Eng.

**SENIOR** 14 credit hours

- EEE2214 Digital Elect. and Lab.
- EME3112 Introduction to Projects
- EME3114 Leadership & Prof. Develop. for Eng.
- EME4243 Embedded Systems
- MRE4113 Discrete Control
- EME4613 Intro. to Thermal Sys.
- EME/EEE/MCS/ERE 4/5xx3 Tech. Elective
- EME/EEE/MCS/ERE 4/5xx3 Tech. Elective
- EME/EEE/MCS/ERE 4/5xx3 Tech. Elective
- MCS3403 Probability & Statistics
- EME/EEE/MCS/ERE 4/5xx3 Tech. Elective

**Legend**

1. 2 Prerequisite (course 1 must be taken before course 2)
2. 2 Corequisite (courses 1 and 2 must be taken concurrently)
3. 2 Courses 1 and 2 may be taken concurrently or course 1 may be taken first before taking course 2

- **Classification**
  - Freshman: 0-29
  - Sophomore: 30-59
  - Junior: 60-89
  - Senior: 90+

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- **G. Kfoury**
  - 5-14-2019

- **Note**
  - All graduating seniors must submit a Petition to Graduate form which is available at the One Stop Center. Form must be submitted at least one semester prior to the semester in which the student plans to graduate. Check deadlines for petitioning to graduate at the Registrar Office webpage.

- **Take exam after completing 3 of the following courses:** LLT 1213, LLT 1223, SSC 2413 and SSC 2423.

- **Check Bannerweb to ensure that all course prerequisites, in addition to COM 3000, are satisfied.**