Name: _____   I.D. # _____

ABET Engineering Accreditation Commission

Lawrence Tech THEORY AND PRACTICE 1932

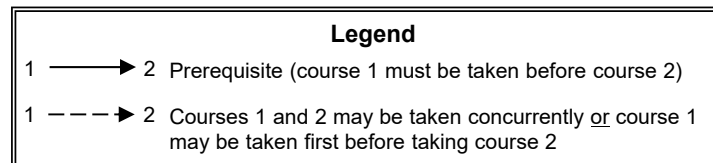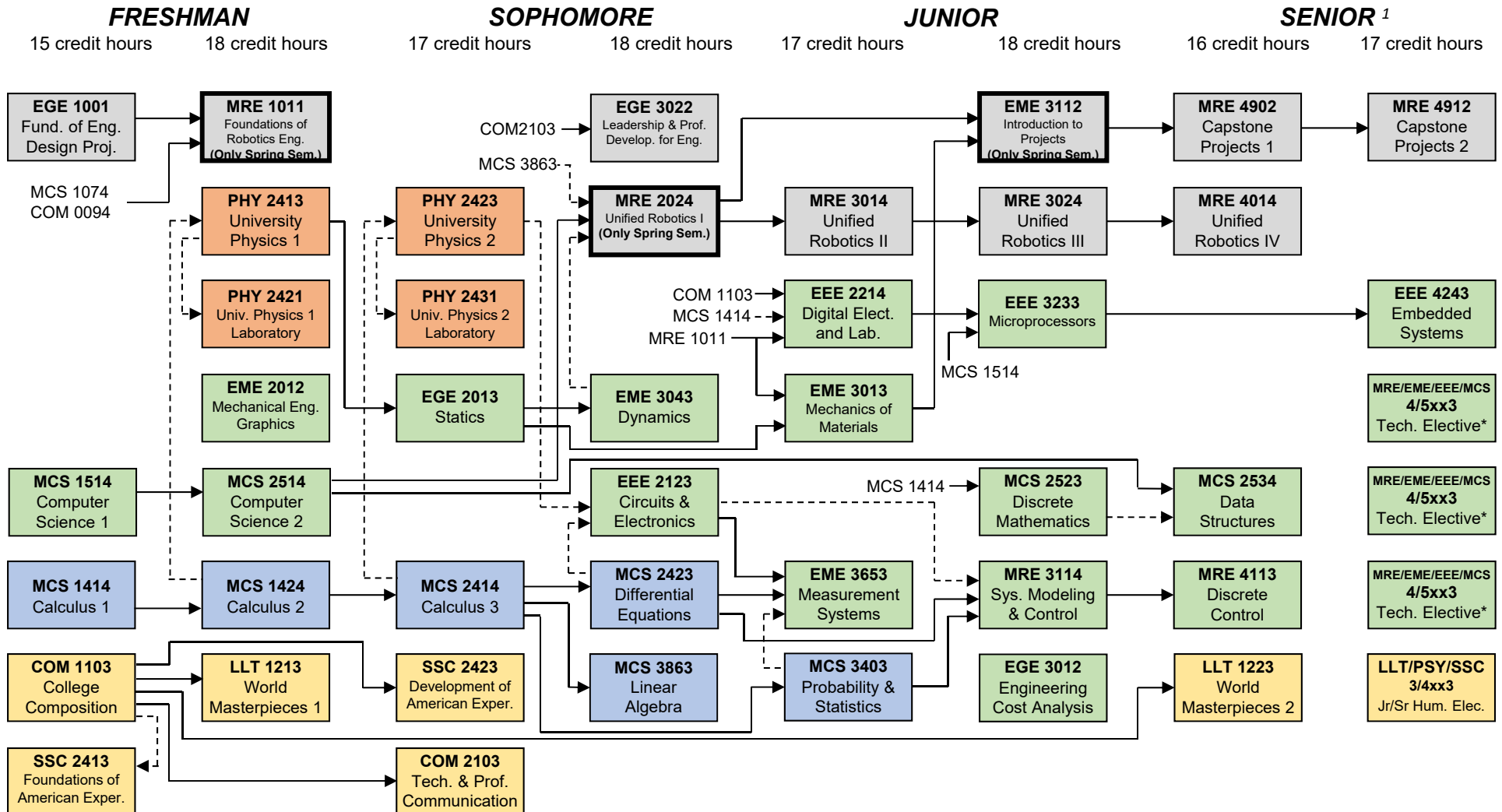# Bachelor of Science in Robotics Engineering (BSRE) Flowchart (Fall 2022, 136 credit hours)

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR [1]	
15 credit hours	18 credit hours	17 credit hours	18 credit hours	17 credit hours	18 credit hours	16 credit hours	17 credit hours

Course boxes:

- EGE 1001 — Fund. of Eng. Design Proj.
- MCS 1074 / COM 0094
- MRE 1011 — Foundations of Robotics Eng. (Only Spring Sem.)
- PHY 2413 — University Physics 1
- PHY 2421 — Univ. Physics 1 Laboratory
- EME 2012 — Mechanical Eng. Graphics
- MCS 1514 — Computer Science 1
- MCS 1414 — Calculus 1
- COM 1103 — College Composition
- SSC 2413 — Foundations of American Exper.

- PHY 2423 — University Physics 2
- PHY 2431 — Univ. Physics 2 Laboratory
- EGE 2013 — Statics
- MCS 2514 — Computer Science 2
- MCS 1424 — Calculus 2
- LLT 1213 — World Masterpieces 1

- COM 2103
- EGE 3022 — Leadership & Prof. Develop. for Eng.
- MCS 3863
- MRE 2024 — Unified Robotics I (Only Spring Sem.)
- EME 3043 — Dynamics
- EEE 2123 — Circuits & Electronics
- MCS 2423 — Differential Equations
- MCS 3863 — Linear Algebra
- SSC 2423 — Development of American Exper.
- MCS 2414 — Calculus 3
- COM 2103 — Tech. & Prof. Communication

- MRE 3014 — Unified Robotics II
- COM 1103 / MCS 1414 / MRE 1011
- EEE 2214 — Digital Elect. and Lab.
- EME 3013 — Mechanics of Materials
- EME 3653 — Measurement Systems
- MCS 3403 — Probability & Statistics

- EME 3112 — Introduction to Projects (Only Spring Sem.)
- MRE 3024 — Unified Robotics III
- EEE 3233 — Microprocessors
- MCS 1514
- MCS 1414 → MCS 2523 — Discrete Mathematics
- MRE 3114 — Sys. Modeling & Control
- EGE 3012 — Engineering Cost Analysis

- MRE 4902 — Capstone Projects 1
- MRE 4014 — Unified Robotics IV
- MCS 2534 — Data Structures
- MRE 4113 — Discrete Control
- LLT 1223 — World Masterpieces 2

- MRE 4912 — Capstone Projects 2
- EEE 4243 — Embedded Systems
- MRE/EME/EEE/MCS 4/5xx3 — Tech. Elective*
- MRE/EME/EEE/MCS 4/5xx3 — Tech. Elective*
- MRE/EME/EEE/MCS 4/5xx3 — Tech. Elective*
- LLT/PSY/SSC 3/4xx3 — Jr/Sr Hum. Elec.

Legend

1 ——→ 2 Prerequisite (course 1 must be taken before course 2)

1 – – → 2 Courses 1 and 2 may be taken concurrently or course 1 may be taken first before taking course 2

Classification	Credit Hrs
Freshman	0-29
Sophomore	30-59
Junior	60-89
Senior	90+

1 All graduating seniors must submit a Graduation Application 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.

* See list of approved elective courses and their associated GPA requirements at the MRIE Dept., room E29, or at the *Mechanical Engineering Students Undergraduate* Canvas site.

♦ Check Bannerweb to ensure that all course prerequisites are satisfied.