



2014-15 Degree Curricula Flow Charts

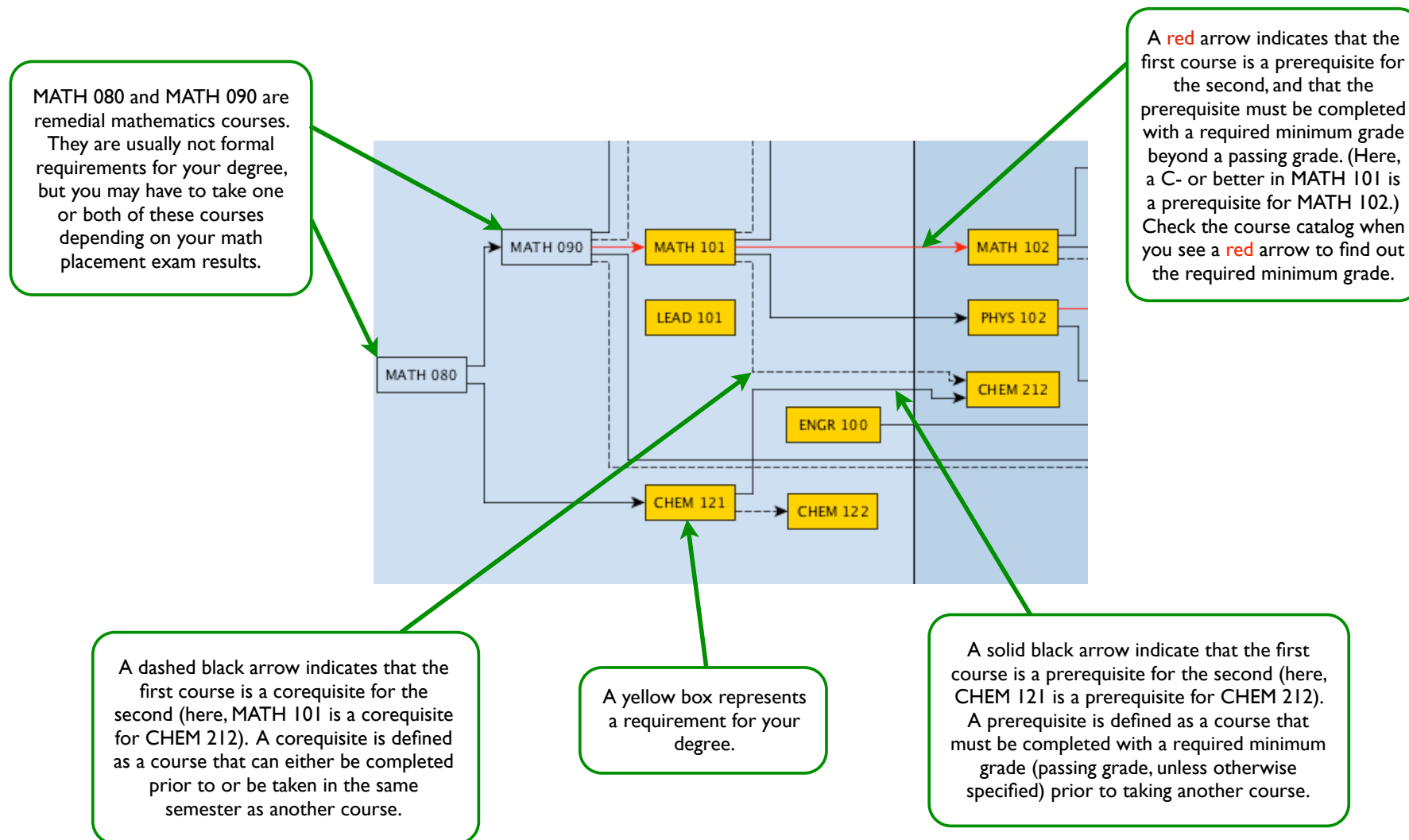
About the Flow Charts

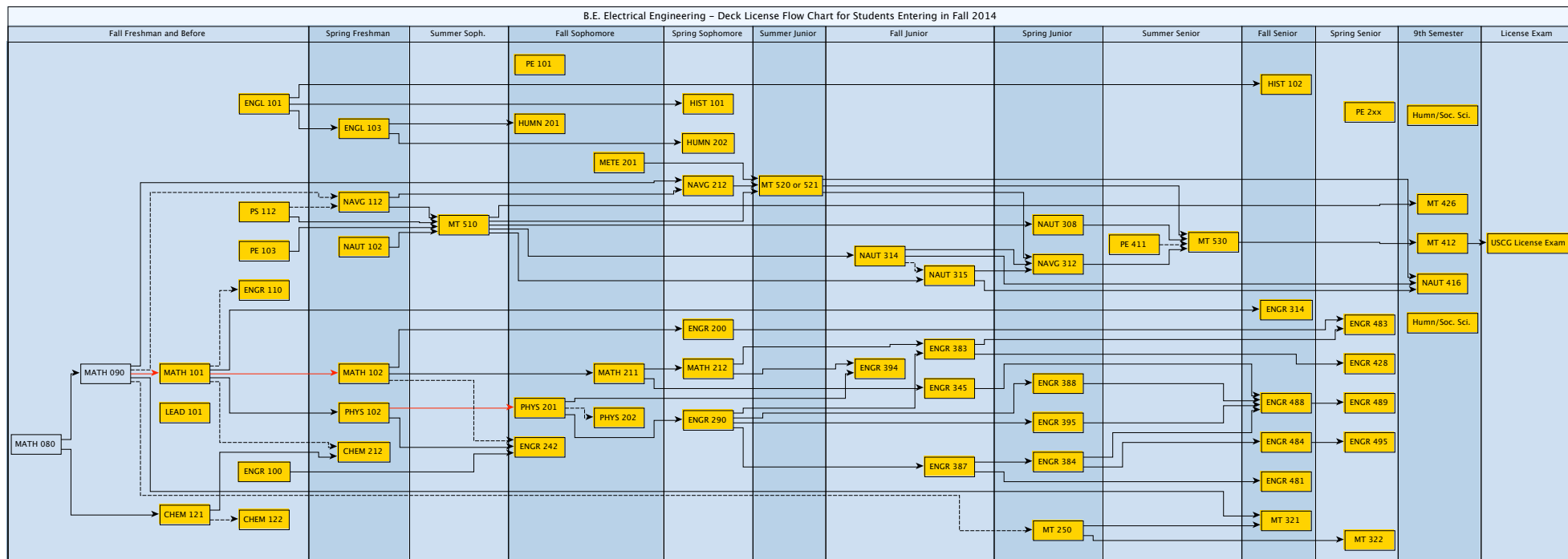
The flow chart for your degree curriculum is a tool to help you visualize the timing of and the relationships between the many courses you will have to take to satisfy the requirements for your degree. The flow charts show the following information.

- required courses for your degree
- the semester in which you should take those courses, as shown on your degree curriculum
- prerequisites and corequisites for the courses in your degree

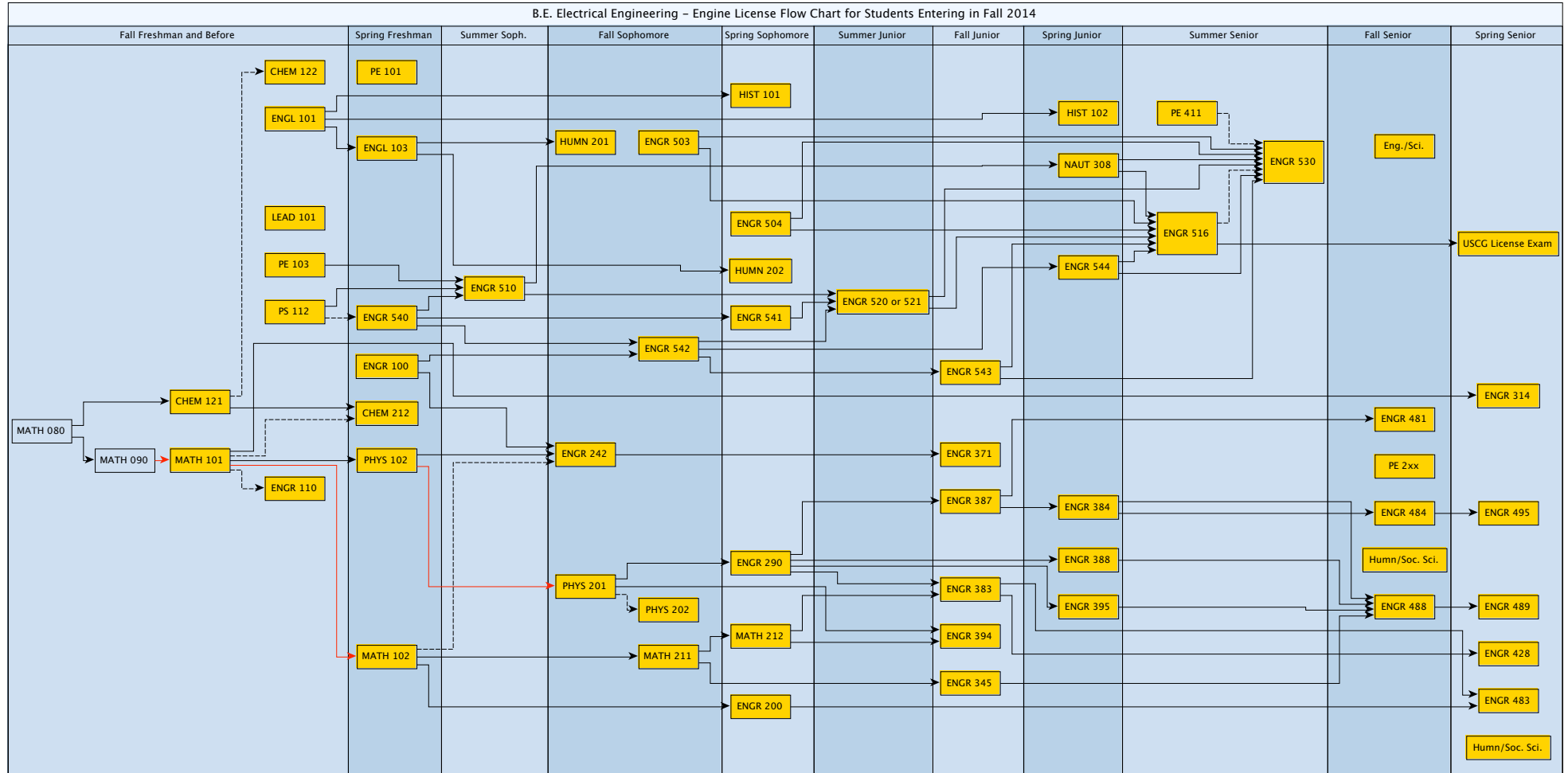
The flow charts are not a substitute for reading your degree curriculum and the course descriptions. Some information, like required minimum grades for prerequisites, the terms in which courses are typically offered, and prerequisites that are not courses (for example, junior standing) are not shown on the flow charts. When in doubt, always refer to your degree curricula and the course descriptions, and do not hesitate to ask for help from your advisor, your department chair, or the academic dean.

How to Read the Curriculum Flow Charts





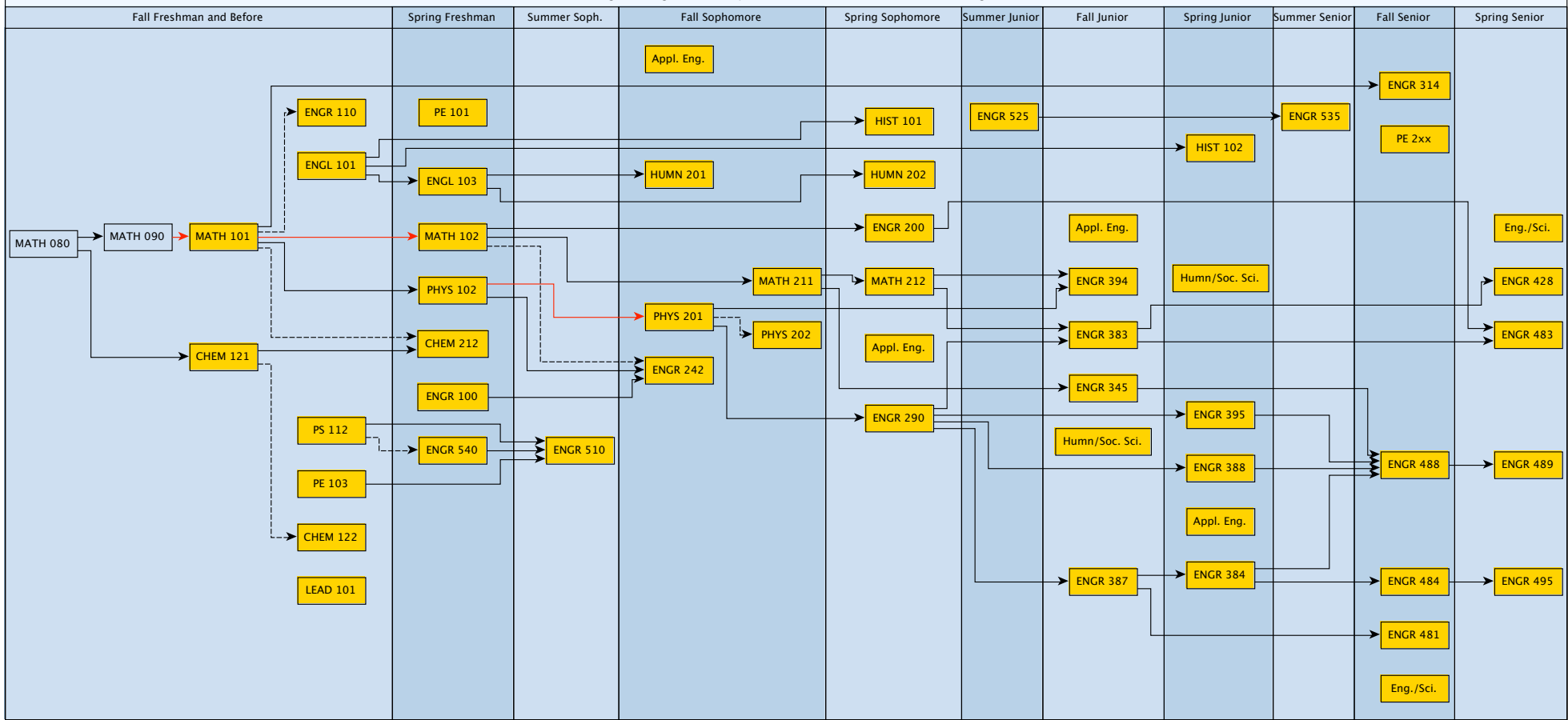
B.E. Electrical Engineering – Engine License Flow Chart for Students Entering in Fall 2014



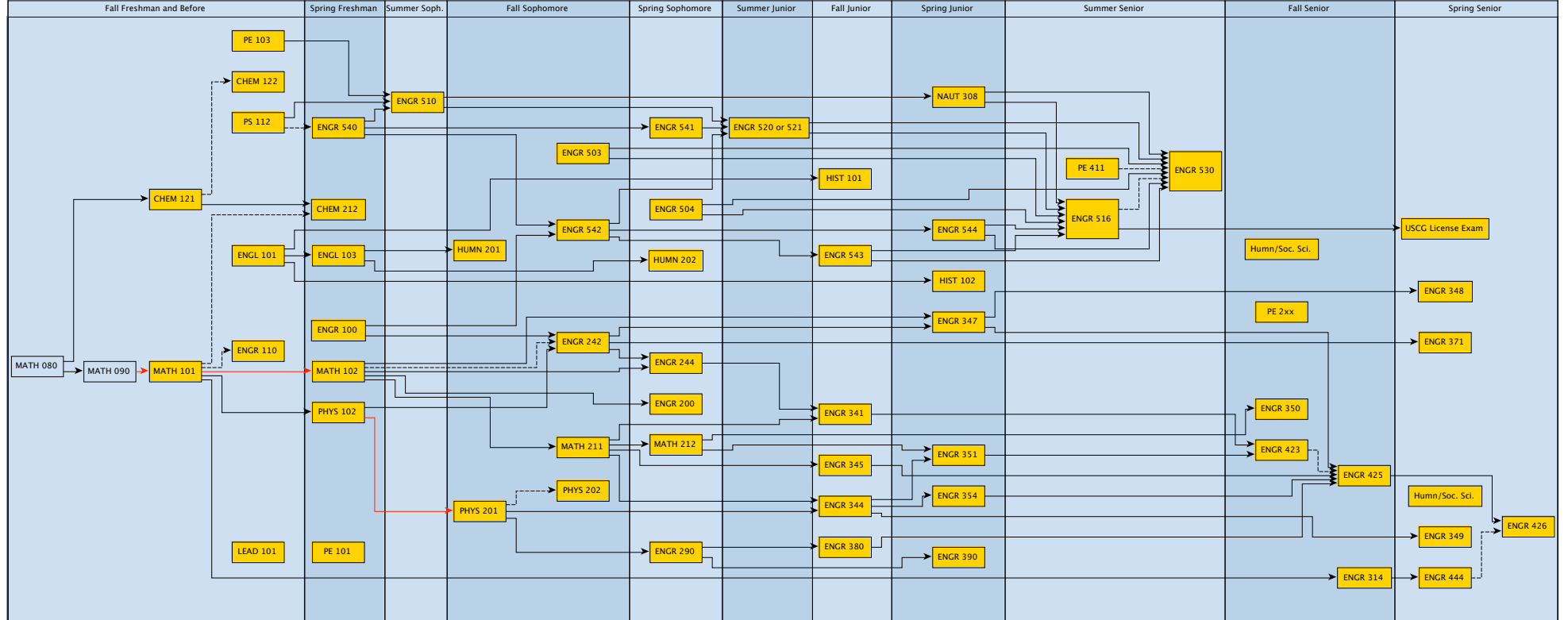
B.E. Electrical Engineering – Intern Option Flow Chart for Students Entering in Fall 2014

The flow chart illustrates the required and recommended courses for B.E. Electrical Engineering students with an intern option, starting from Fall Freshman and ending in Spring Senior. The courses are organized into columns by semester. The flow is as follows:

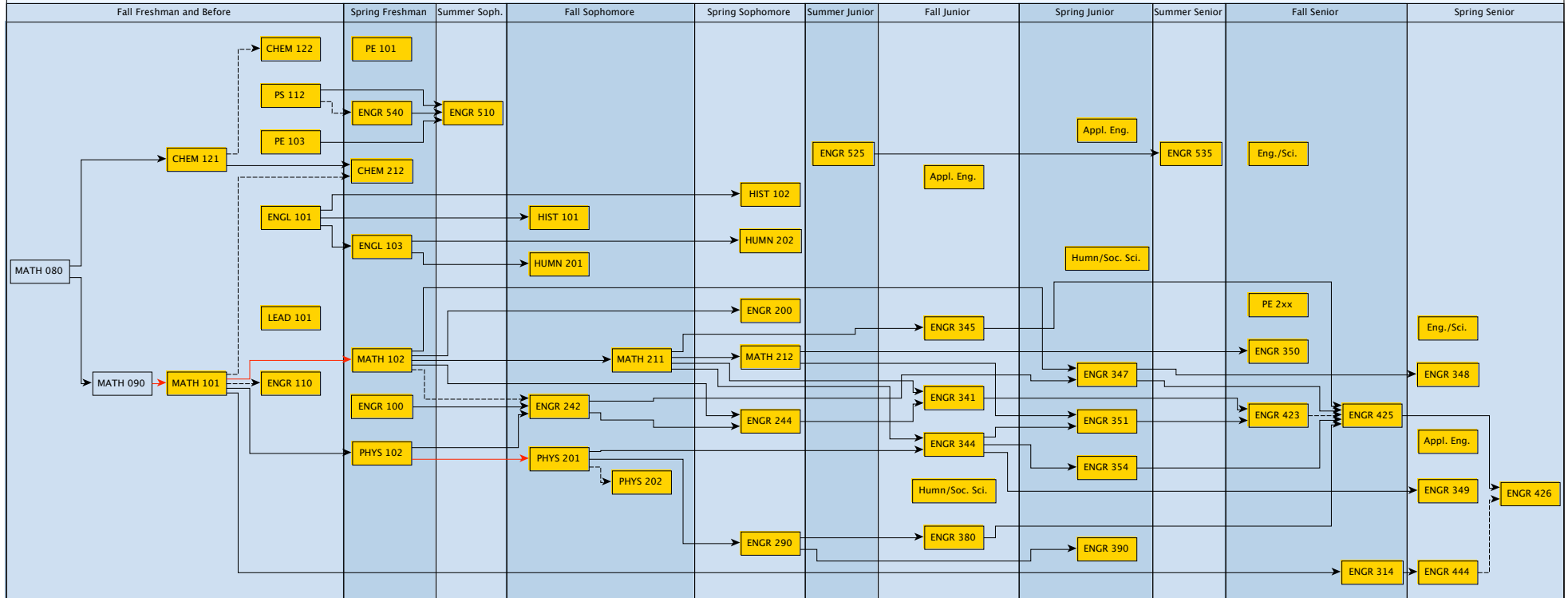
- Fall Freshman and Before:** MATH 080 leads to MATH 090, which leads to MATH 101. MATH 101 also leads to CHEM 121.
- Spring Freshman:** MATH 101 leads to ENGR 110, ENGL 101, PHYS 102, CHEM 212, PS 112, PE 103, CHEM 122, and LEAD 101. MATH 101 also leads to MATH 102 (highlighted with a red arrow).
- Summer Soph.:** MATH 102 leads to PHYS 201, ENGR 242, and ENGR 510. PHYS 201 leads to PHYS 202. ENGR 242 leads to ENGR 290. ENGR 510 leads to ENGR 488 and ENGR 495.
- Fall Sophomore:** MATH 102 leads to MATH 211. PHYS 201 leads to MATH 211. PHYS 202 leads to MATH 212. ENGR 290 leads to ENGR 394, ENGR 383, ENGR 345, and ENGR 387. ENGR 290 also leads to ENGR 395, ENGR 388, and ENGR 384. ENGR 290 also leads to ENGR 488 and ENGR 495.
- Spring Sophomore:** MATH 211 leads to MATH 212. MATH 212 leads to ENGR 394, ENGR 383, ENGR 345, and ENGR 387. ENGR 394 leads to ENGR 395. ENGR 383 leads to ENGR 388. ENGR 345 leads to ENGR 384. ENGR 387 leads to ENGR 384. ENGR 395 leads to ENGR 488 and ENGR 495. ENGR 388 leads to ENGR 488. ENGR 384 leads to ENGR 484 and ENGR 481. ENGR 387 leads to ENGR 481. ENGR 384 also leads to ENGR 481.
- Summer Junior:** ENGR 525 leads to ENGR 535. ENGR 535 leads to ENGR 314 and PE 2xx. ENGR 535 also leads to ENGR 488 and ENGR 495.
- Fall Junior:** ENGR 525 leads to ENGR 535. ENGR 535 leads to ENGR 314 and PE 2xx. ENGR 535 also leads to ENGR 488 and ENGR 495.
- Spring Junior:** ENGR 525 leads to ENGR 535. ENGR 535 leads to ENGR 314 and PE 2xx. ENGR 535 also leads to ENGR 488 and ENGR 495.
- Summer Senior:** ENGR 525 leads to ENGR 535. ENGR 535 leads to ENGR 314 and PE 2xx. ENGR 535 also leads to ENGR 488 and ENGR 495.
- Fall Senior:** ENGR 525 leads to ENGR 535. ENGR 535 leads to ENGR 314 and PE 2xx. ENGR 535 also leads to ENGR 488 and ENGR 495.
- Spring Senior:** ENGR 525 leads to ENGR 535. ENGR 535 leads to ENGR 314 and PE 2xx. ENGR 535 also leads to ENGR 488 and ENGR 495.



B.E. Facilities Engineering – Engine License Flow Chart for Students Entering in Fall 2014

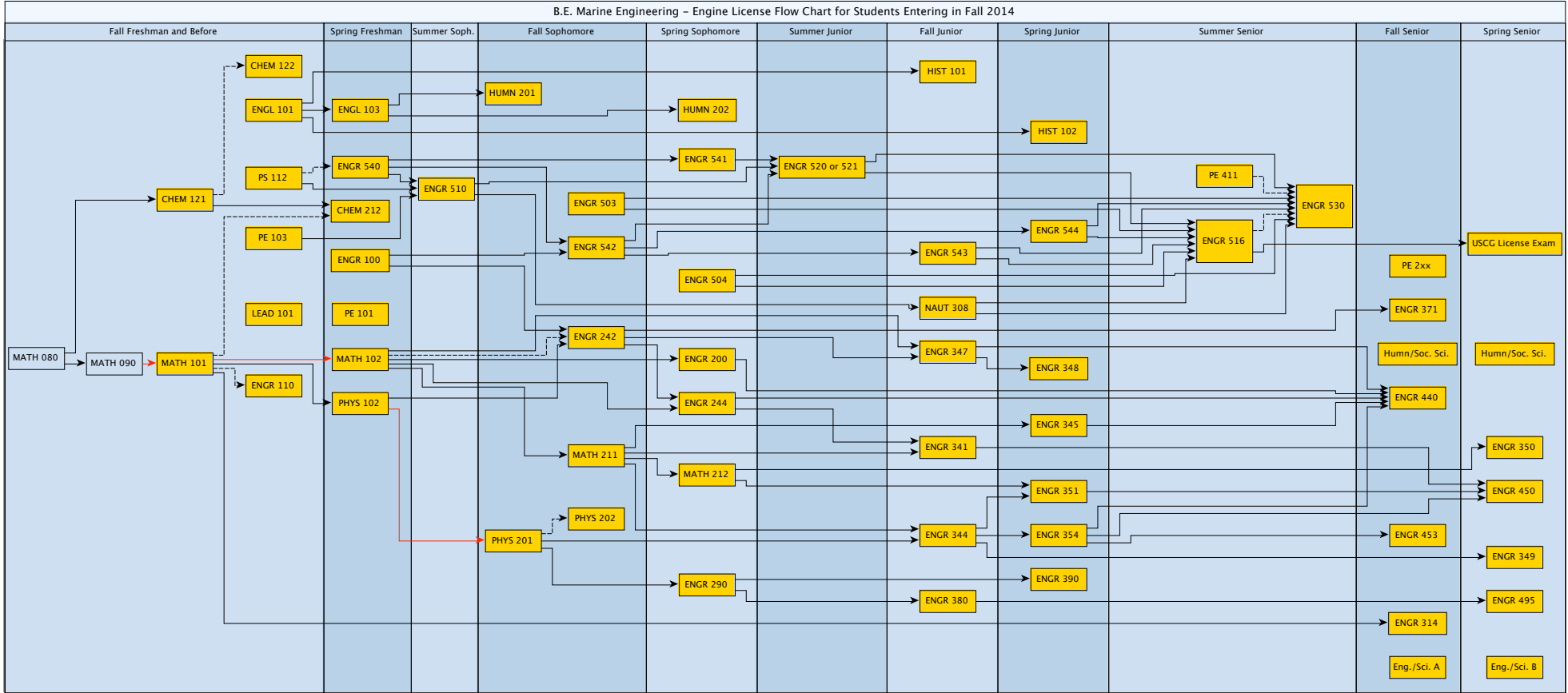


B.E. Facilities Engineering – Intern Option Flow Chart for Students Entering in Fall 2014

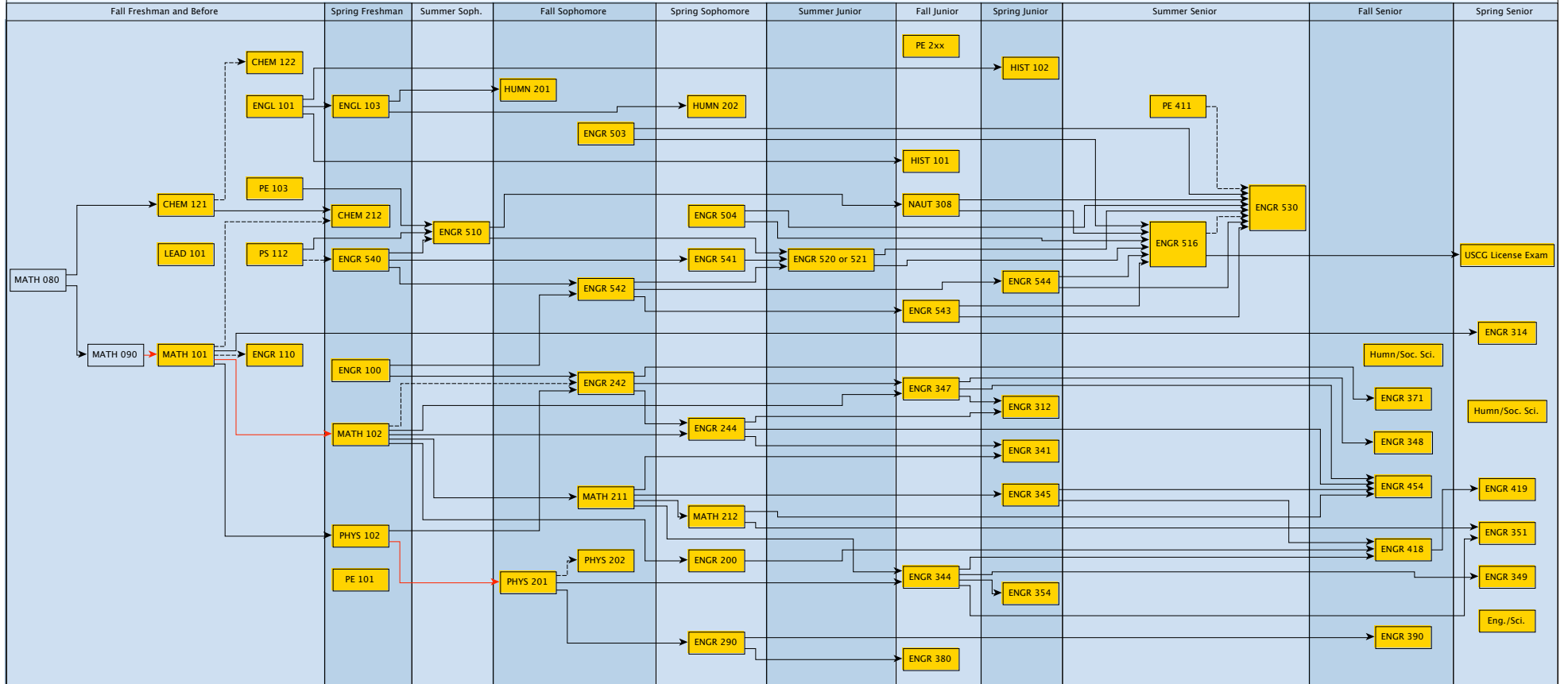


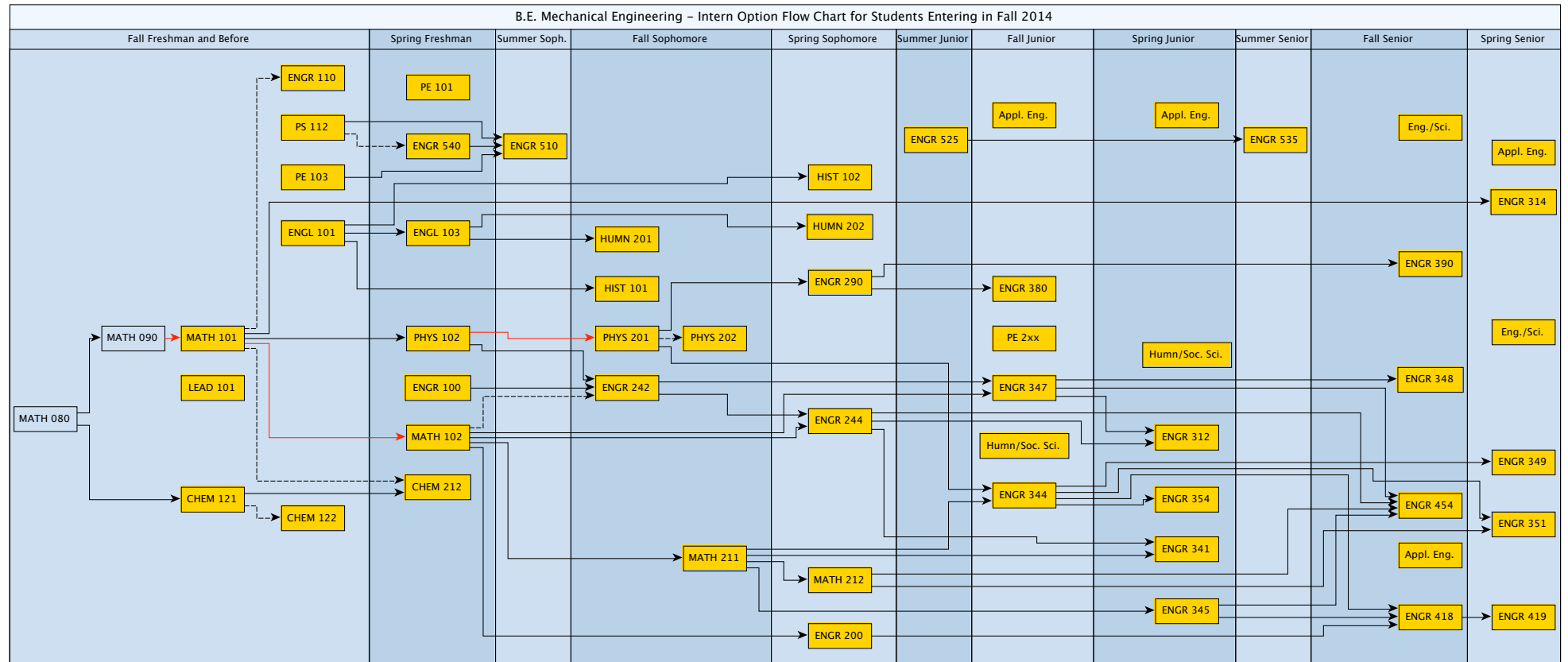
B.E. Marine Engineering – Engine License Flow Chart for Students Entering in Fall 2014

The flow chart illustrates the progression of courses for students entering in Fall 2014. The courses are organized into columns by semester: Fall Freshman and Before, Spring Freshman, Summer Soph., Fall Sophomore, Spring Sophomore, Summer Junior, Fall Junior, Spring Junior, Summer Senior, Fall Senior, and Spring Senior. The chart shows the sequence of courses, including prerequisites and elective options, leading to the USCG License Exam and various engineering licenses (Eng./Sci. A, B) in the final semester.

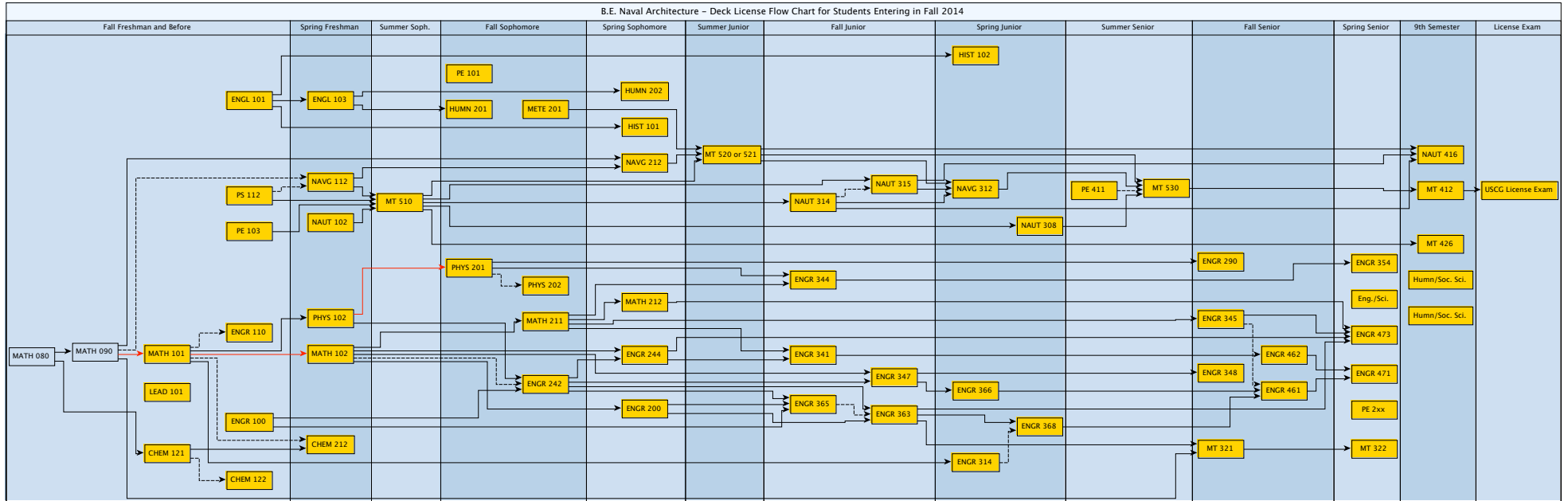


B.E. Mechanical Engineering – Engine License Flow Chart for Students Entering in Fall 2014

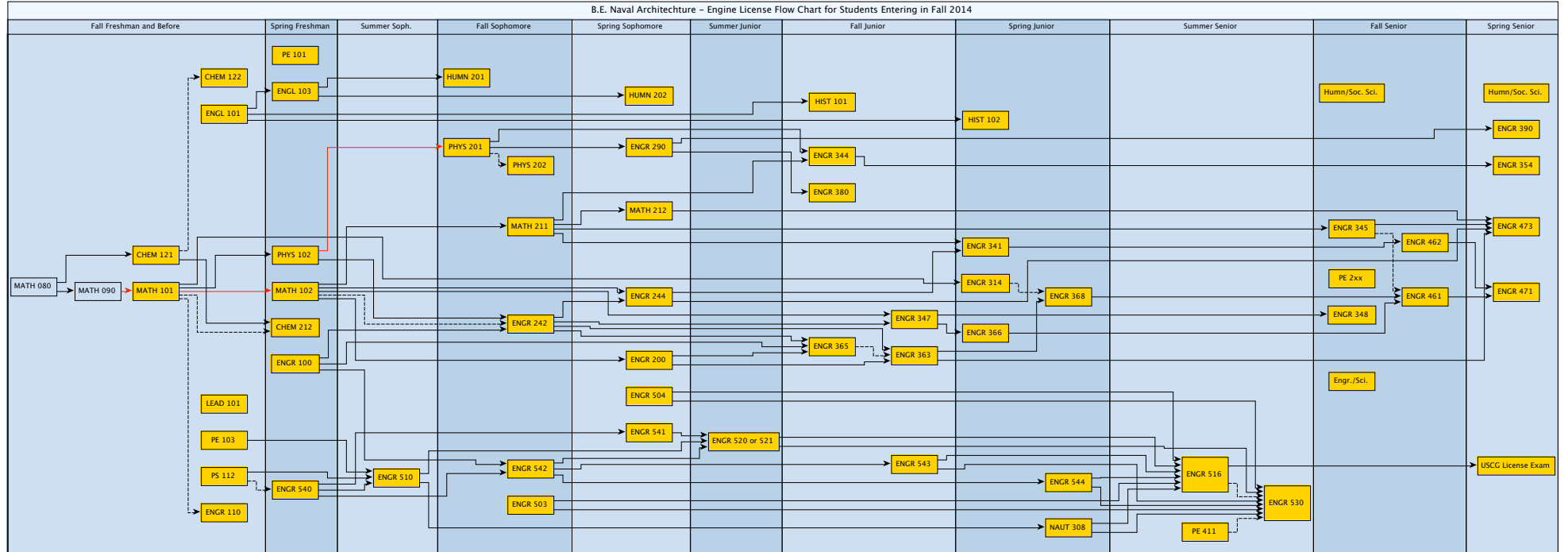




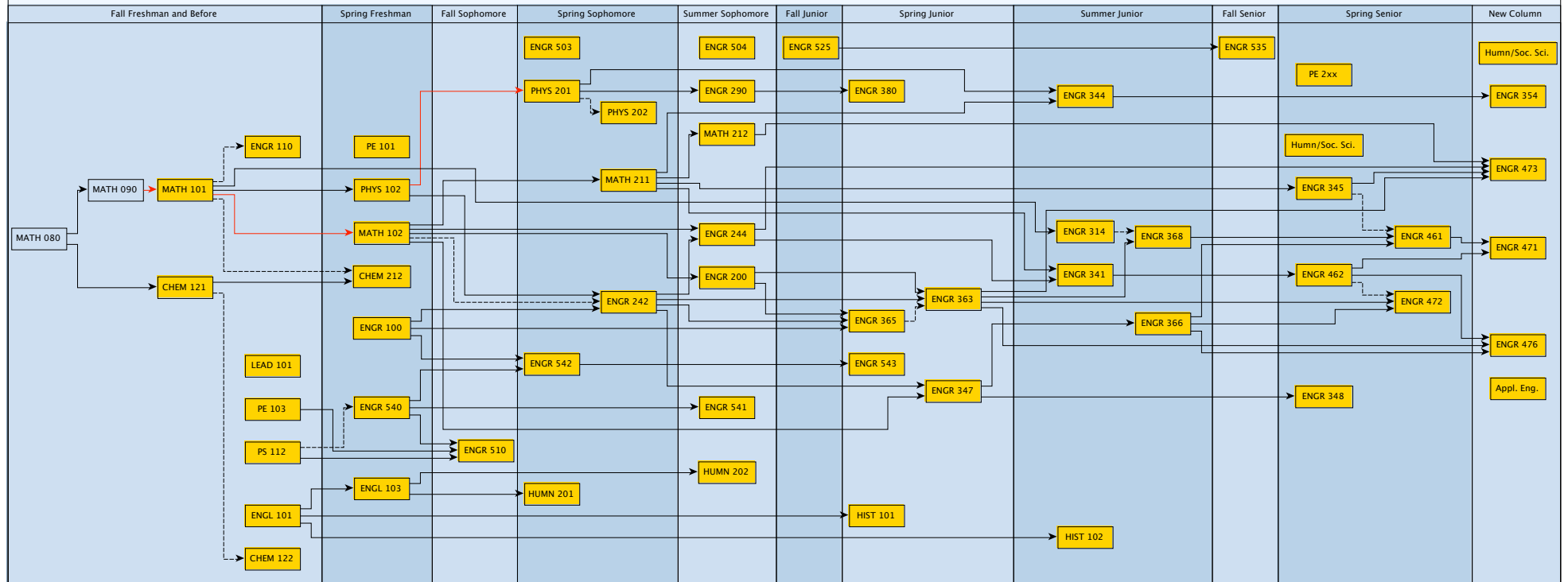
B.E. Naval Architecture – Deck License Flow Chart for Students Entering in Fall 2014



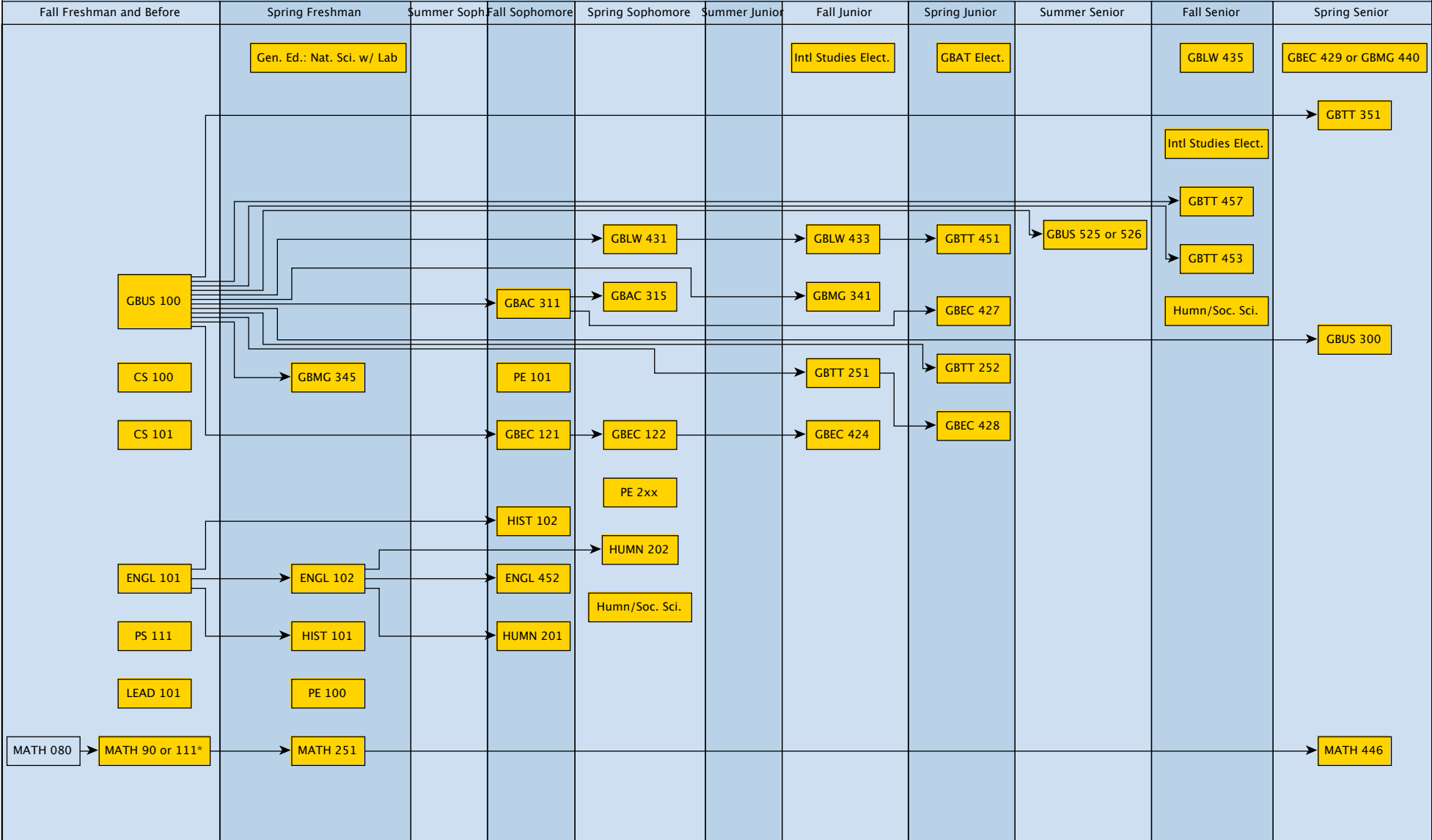
B.E. Naval Architecture – Engine License Flow Chart for Students Entering in Fall 2014



B.E. Naval Architecture – Intern Option Flow Chart for Students Entering in Fall 2014

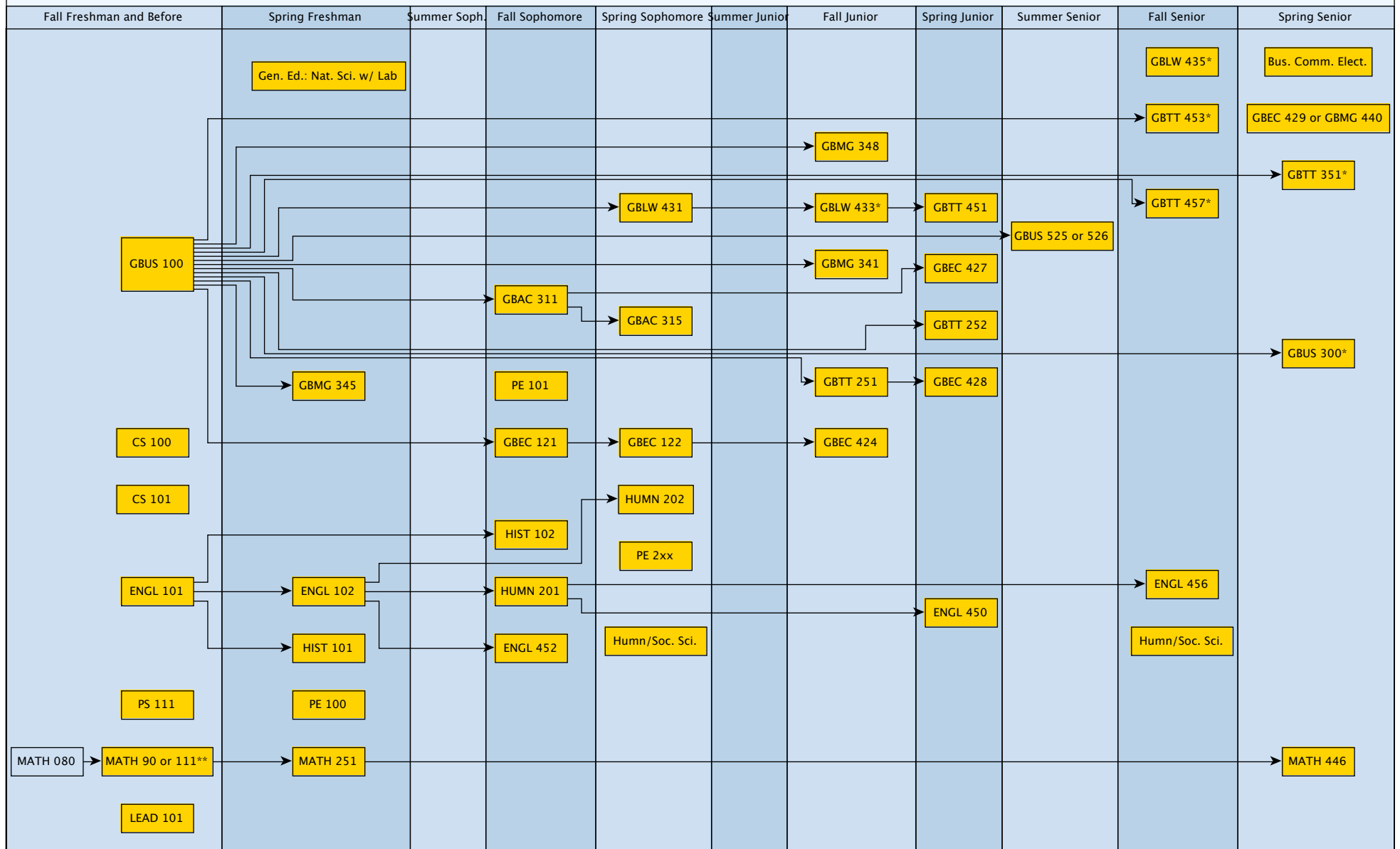


B.S. International Transportation and Trade – Intern Option Flow Chart for Students Entering in Fall 2014



* The prerequisite for MATH 090 is MATH 080. The prerequisite for MATH 111 is MATH 090.

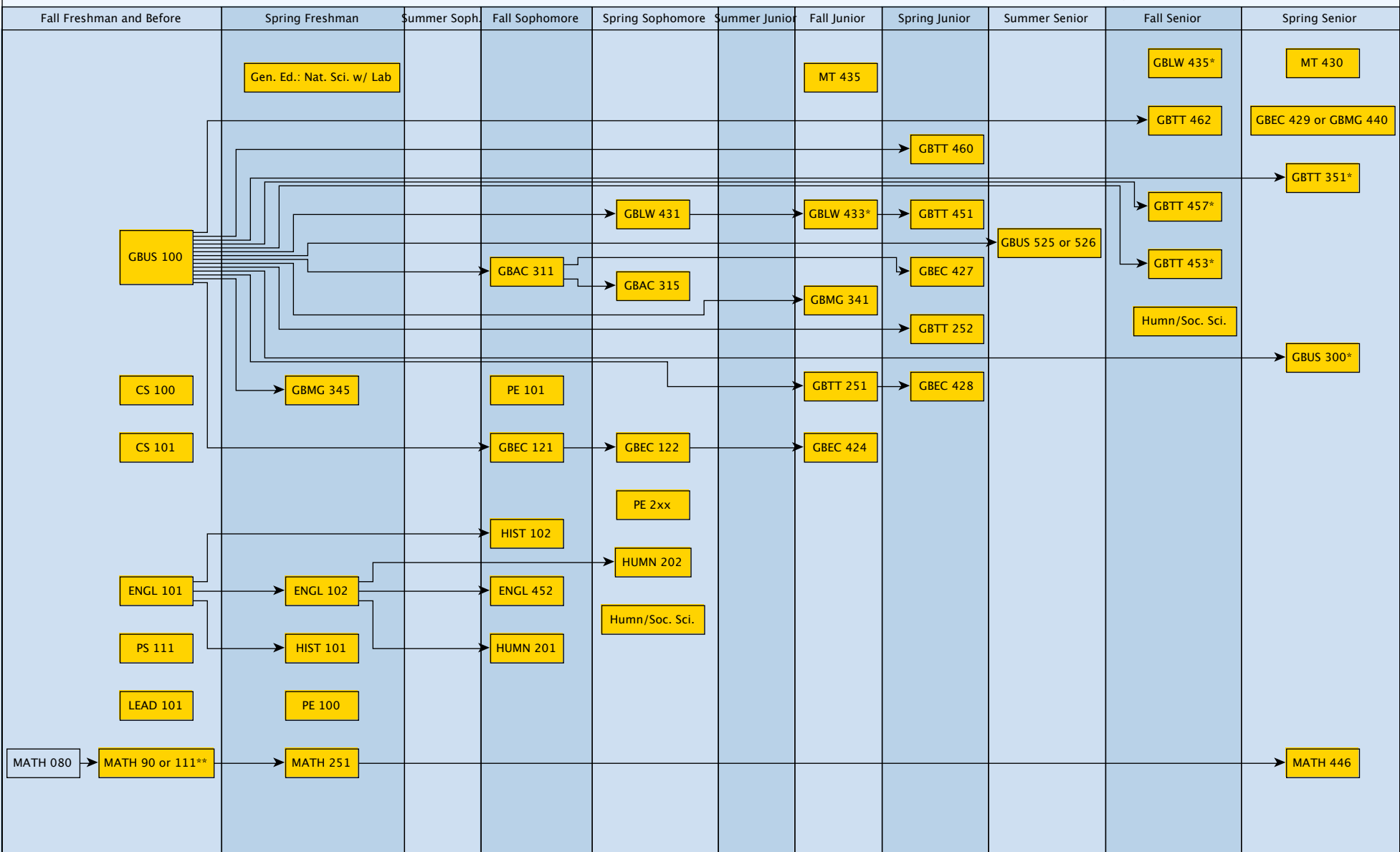
B.S. International Transportation and Trade – Intern Option, Minor in Business Communications Flow Chart for Students Entering in Fall 2014



* Students will meet with advisor to replace one of these courses by a Business Communication elective.

** The prerequisite for MATH 090 is MATH 080. The prerequisite for MATH 111 is MATH 090.

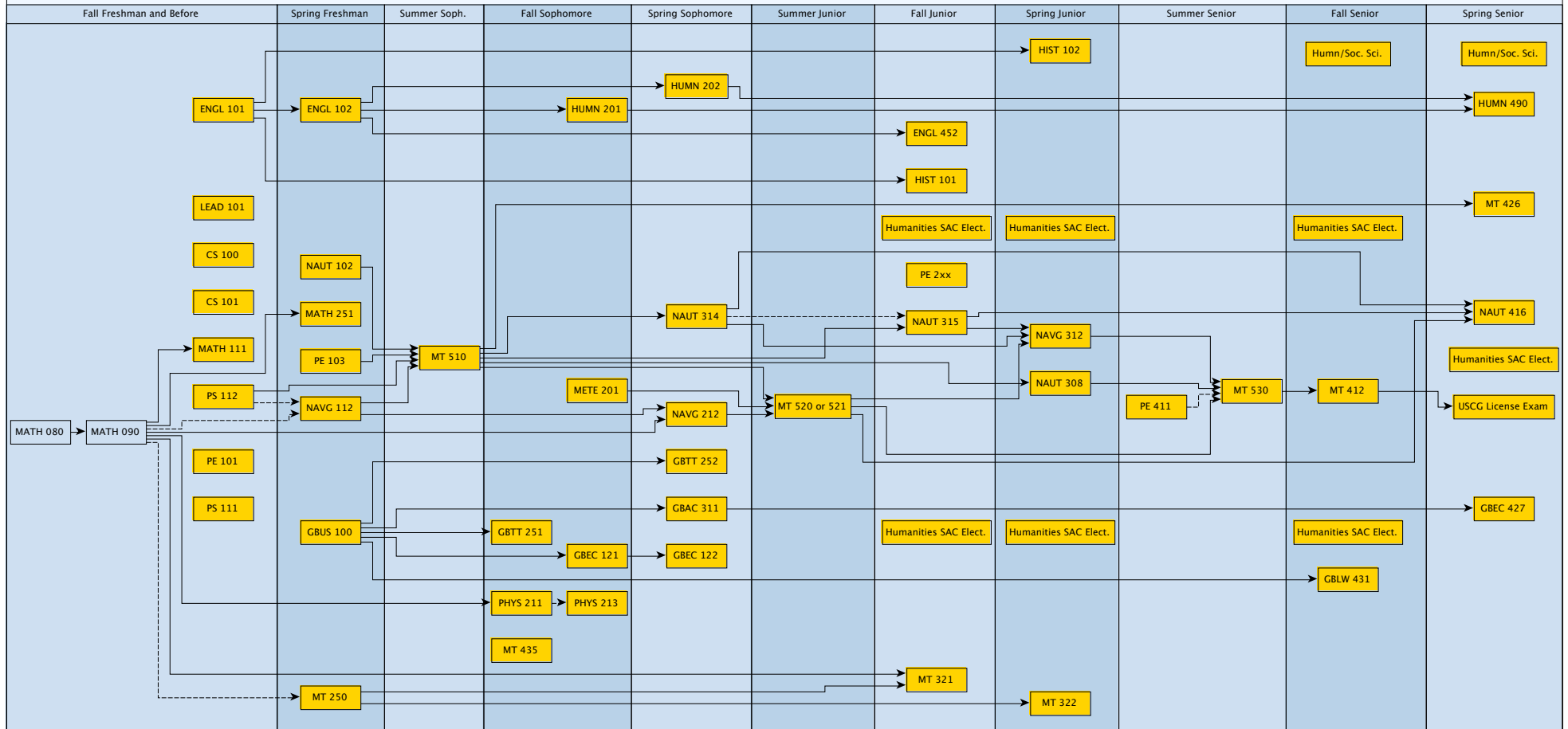
B.S. International Transportation and Trade – Intern Option, Minor in Intermodal and Maritime Security Flow Chart for Students Entering in Fall 2014



* Students will meet with advisor to replace one of these courses by GBTT 465.

☆☆ The prerequisite for MATH 090 is MATH 080. The prerequisite for MATH 111 is MATH 090.

B.S. Marine Business and Commerce – Deck License, Humanities Study Area Concentration Flow Chart for Students Entering in Fall 2014



B.S. Marine Environmental Science – Deck License, Marine Biology Minor Flow Chart for Students Entering in Fall 2014

The flow chart illustrates the required coursework for a B.S. Marine Environmental Science degree with a Deck License and Marine Biology Minor, starting in Fall 2014. The chart is organized by semester, from Fall Freshman to Spring Senior. Courses are represented by yellow boxes, and arrows indicate the sequence and prerequisites. Key courses include ENGL 101, CHEM 121, MATH 080/090, BIO 201, CHEM 221, MATH 251, and various upper-level biology and chemistry courses. The chart also shows elective options like MES Elect. and USCG License Exam.

Fall Freshman and Before: MATH 080, CS 101, LEAD 101, MATH 090, MATH 111, PS 112, NAVG 112, ENGL 101, CHEM 121, ES 101.

Spring Freshman: ENGL 102, OCEA 101, CHEM 122, CHEM 123, CHEM 124, MATH 112, NAVG 102, PE 103.

Summer Soph: HUMN 201, HIST 101, MT 510.

Fall Sophomore: HUMN 202, HIST 102, BIO 201, CHEM 221, CHEM 222, PHYS 211, PHYS 213, PHYS 214, PHYS 216, METE 201, NAVG 212.

Spring Sophomore: HUMN 202, HIST 102, BIO 201, CHEM 221, CHEM 222, PHYS 214, PHYS 216, METE 201, NAVG 212.

Summer Junior: CHEM 220, BIO 315, MATH 251, MT 321, MT 520 or 521, NAVG 312, MT 530, PE 411.

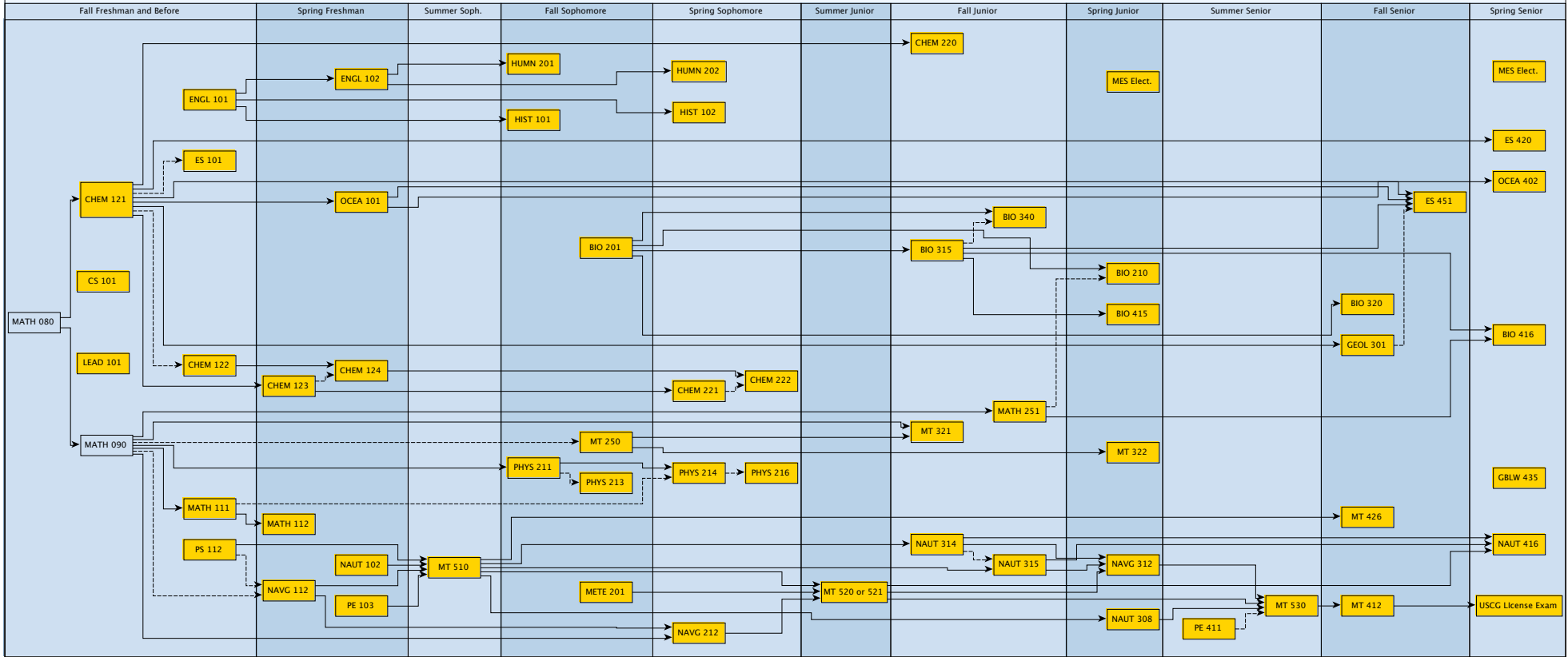
Fall Junior: CHEM 220, BIO 340, BIO 315, BIO 210, BIO 415, MATH 251, MT 321, NAVG 314, NAVG 315, NAVG 312, MT 530, PE 411.

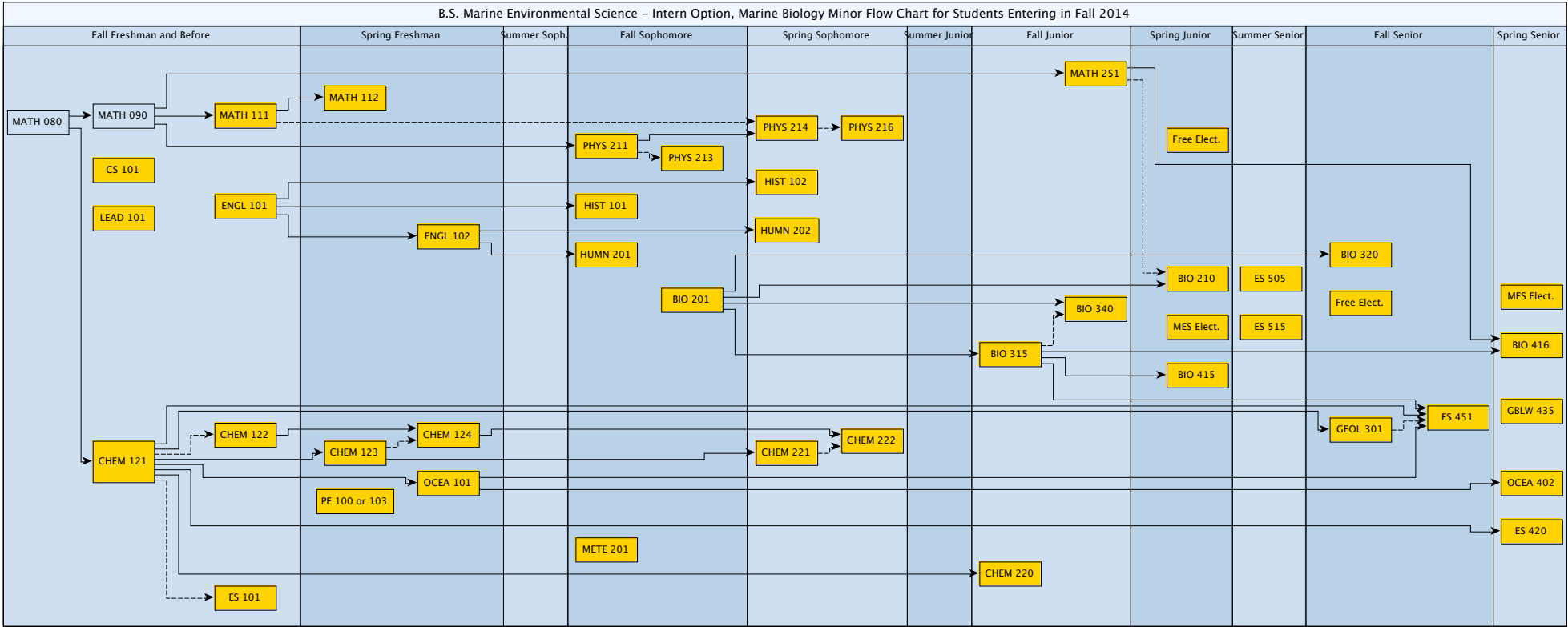
Spring Junior: MES Elect., BIO 210, BIO 415, MT 322, NAVG 312, NAVG 308, PE 411.

Summer Senior: MES Elect., BIO 210, BIO 415, MT 322, NAVG 312, NAVG 308, PE 411.

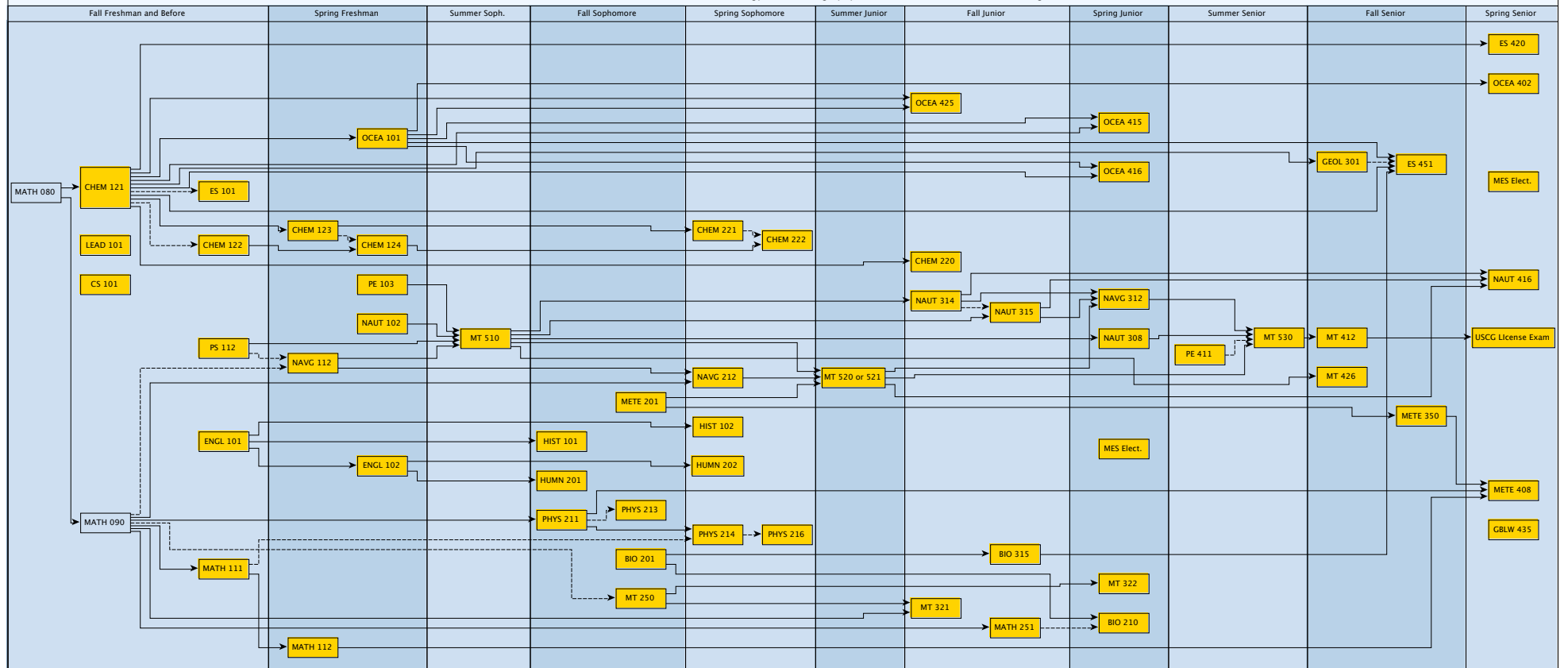
Fall Senior: ES 451, BIO 320, GEOL 301, MT 426, MT 412.

Spring Senior: MES Elect., ES 420, OCEA 402, BIO 416, CBLW 435, NAUT 416, USCG License Exam.

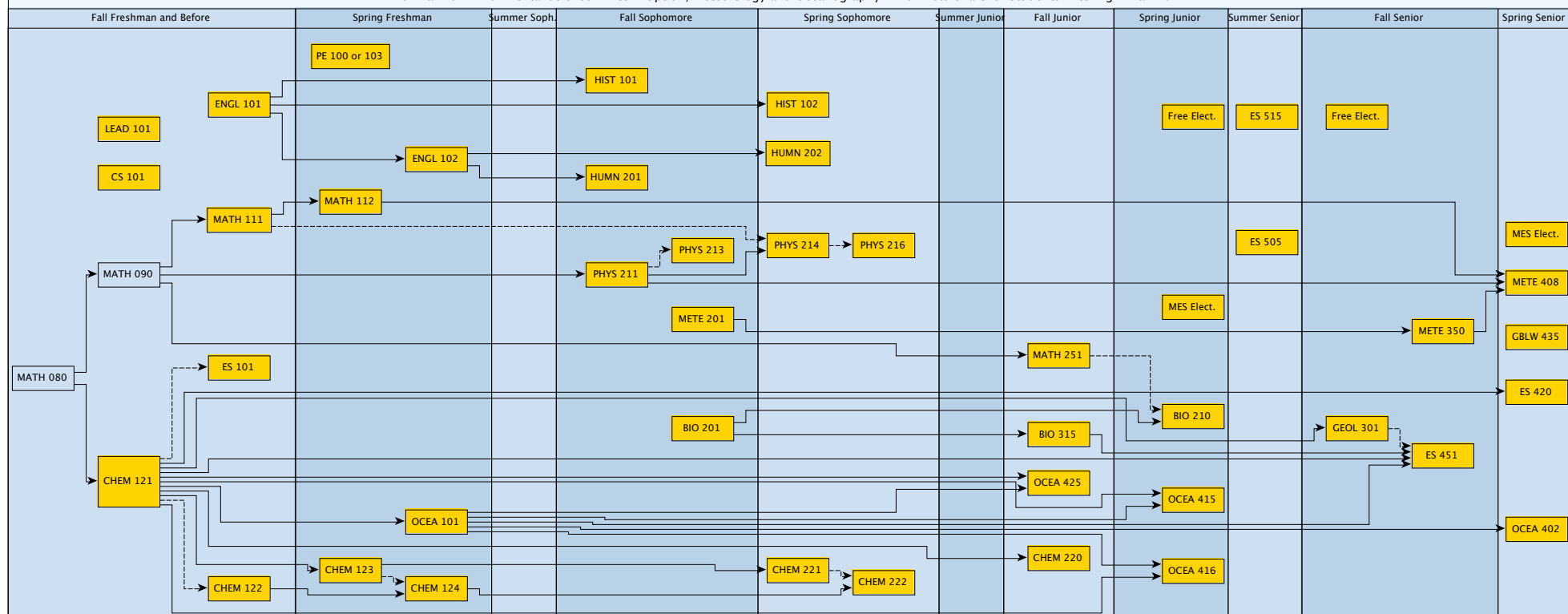


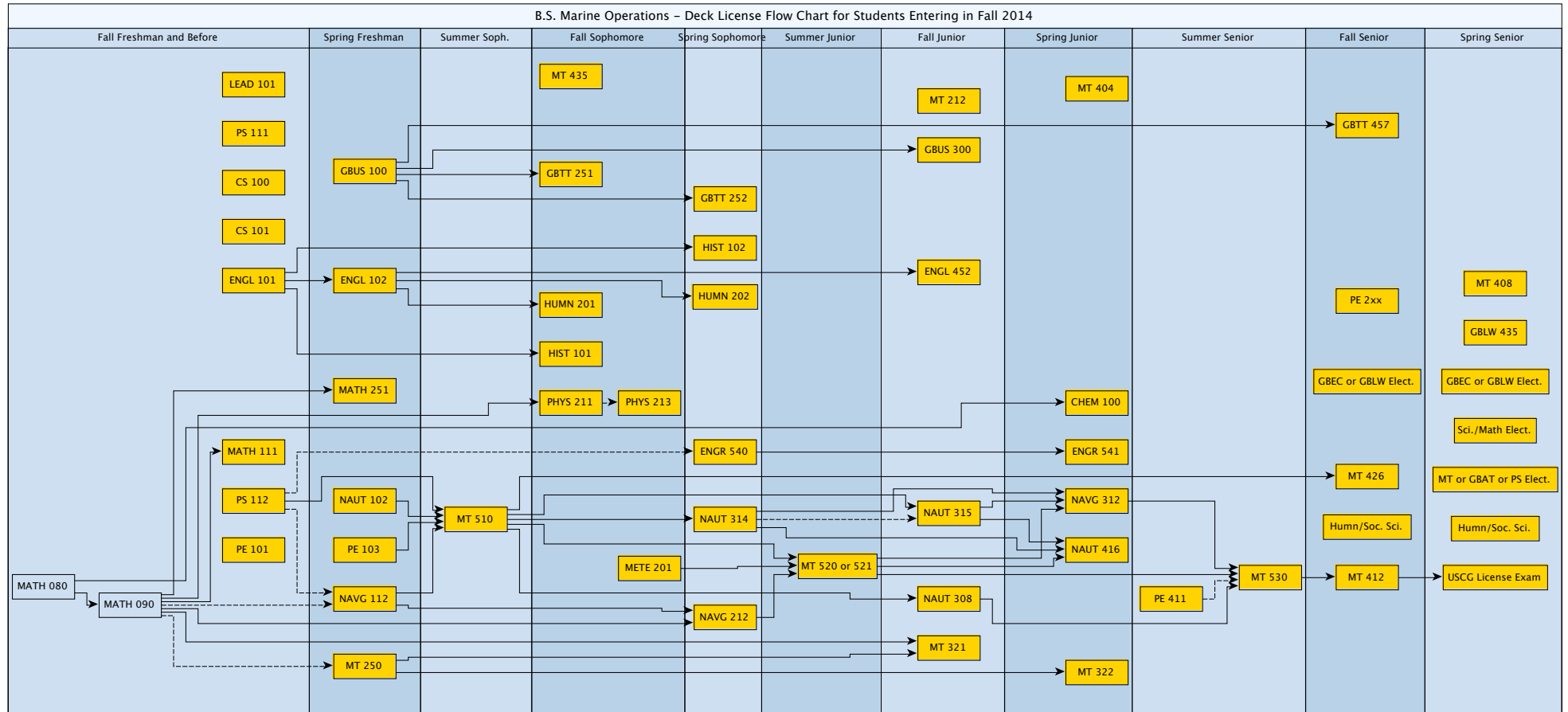
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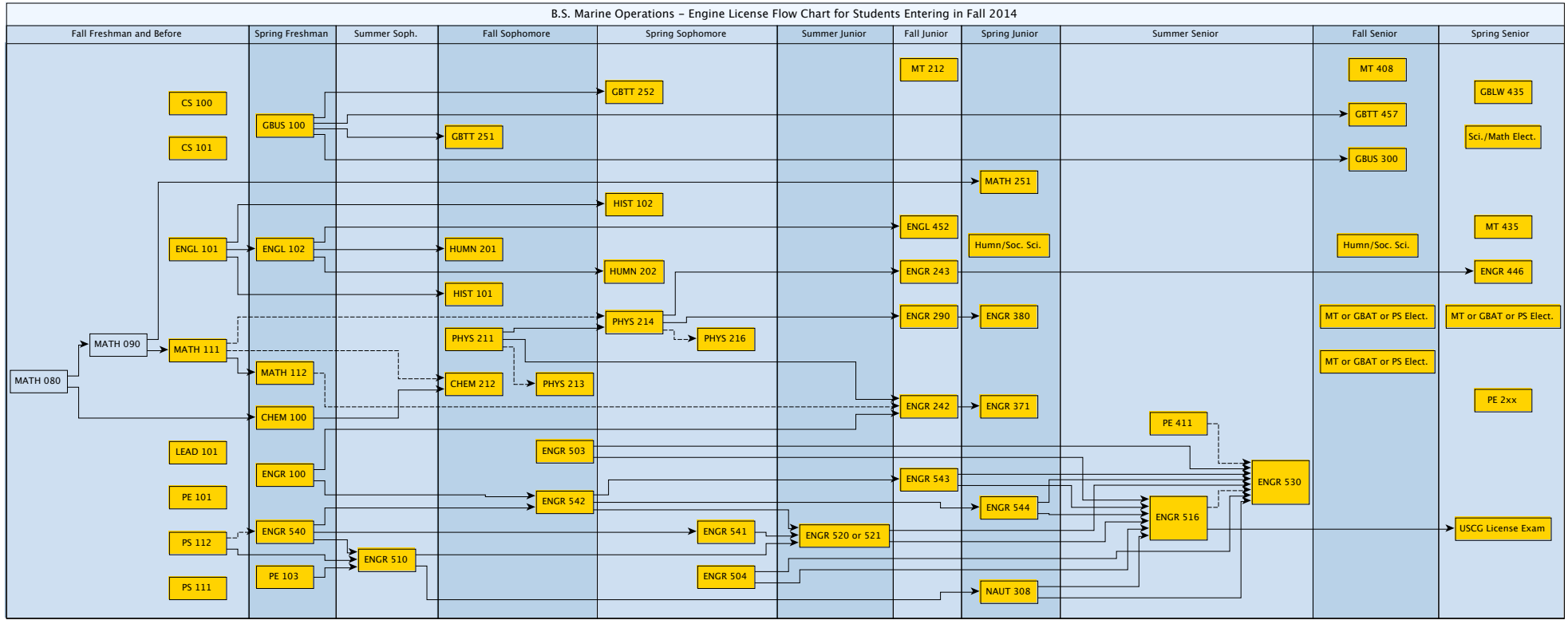
B.S. Marine Environmental Science – Deck License, Meteorology and Oceanography Minor Flow Chart for Students Entering in Fall 2014



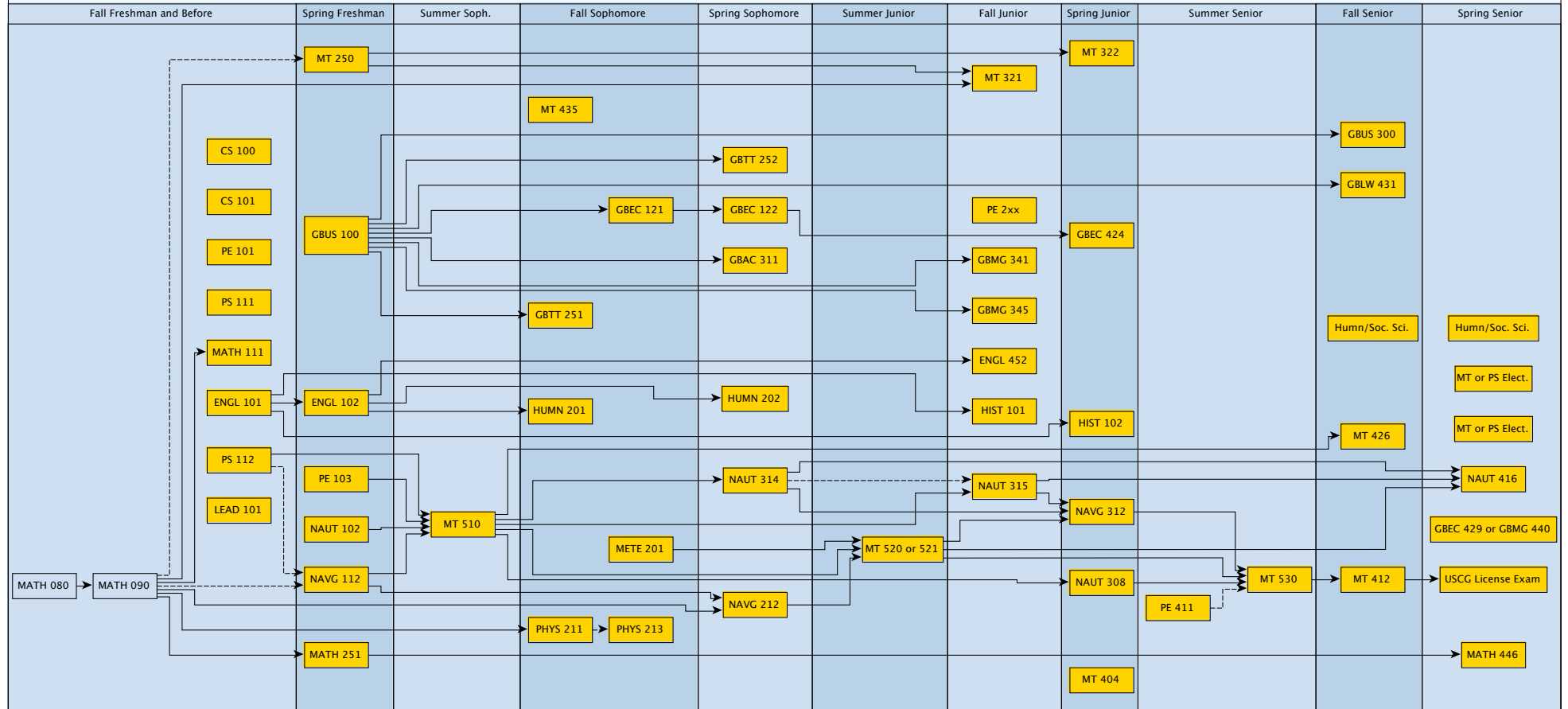
B.S. Marine Environmental Science – Intern Option, Meteorology and Oceanography Minor Flow Chart for Students Entering in Fall 2014



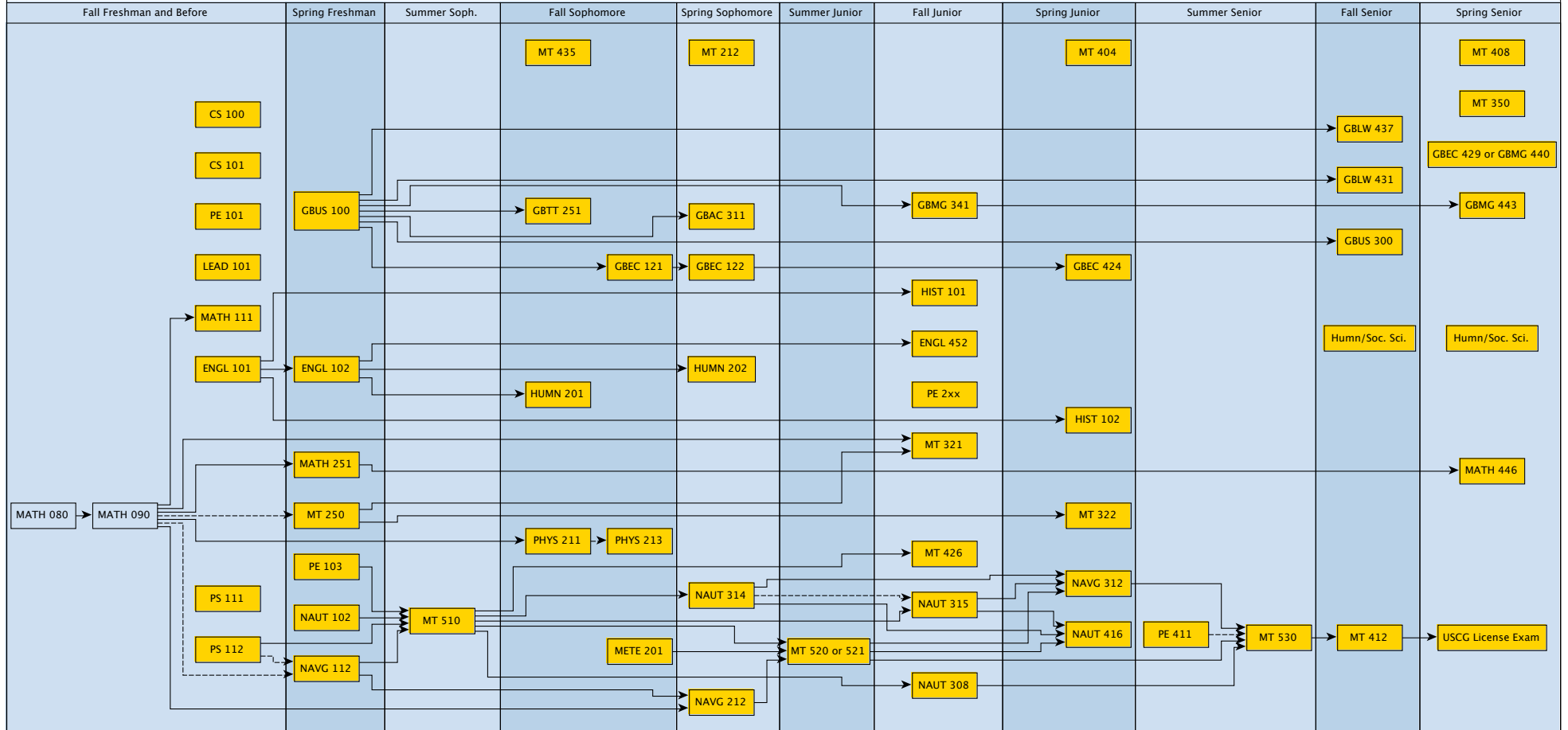


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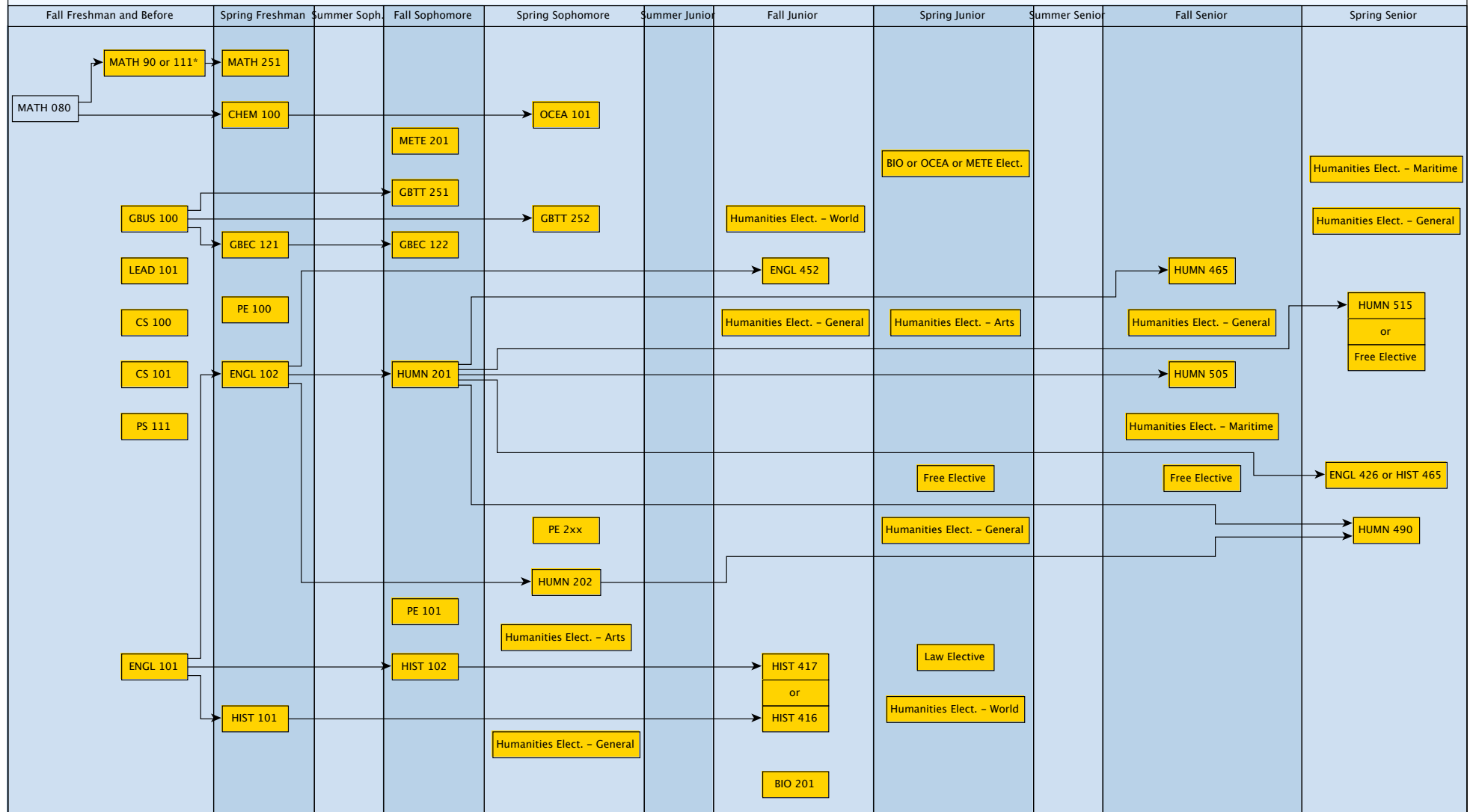
B.S. Marine Transportation – Deck License Flow Chart for Students Entering in Fall 2014



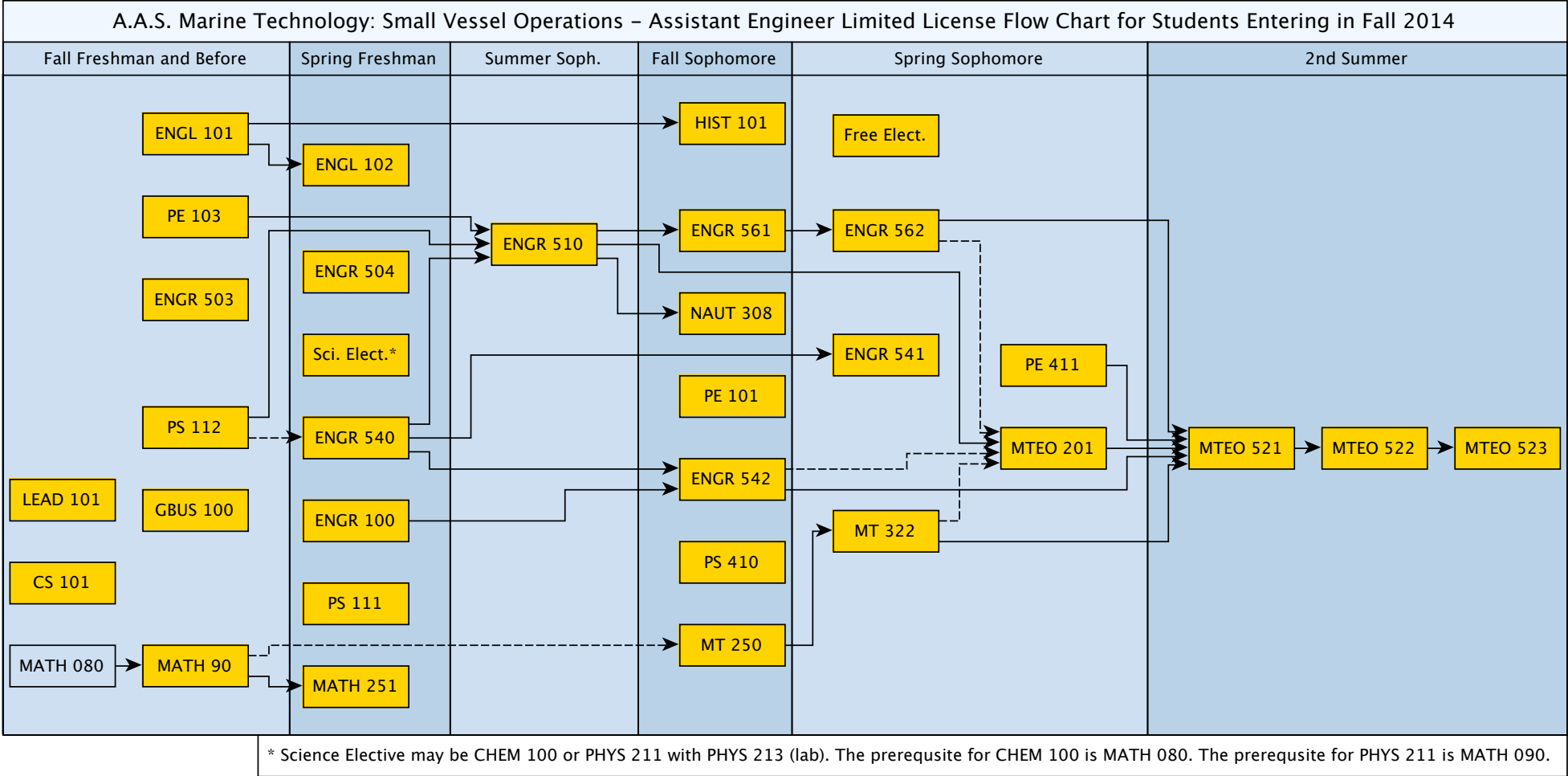
B.S. Marine Transportation – Deck License, Ship Management Minor Flow Chart for Students Entering in Fall 2014



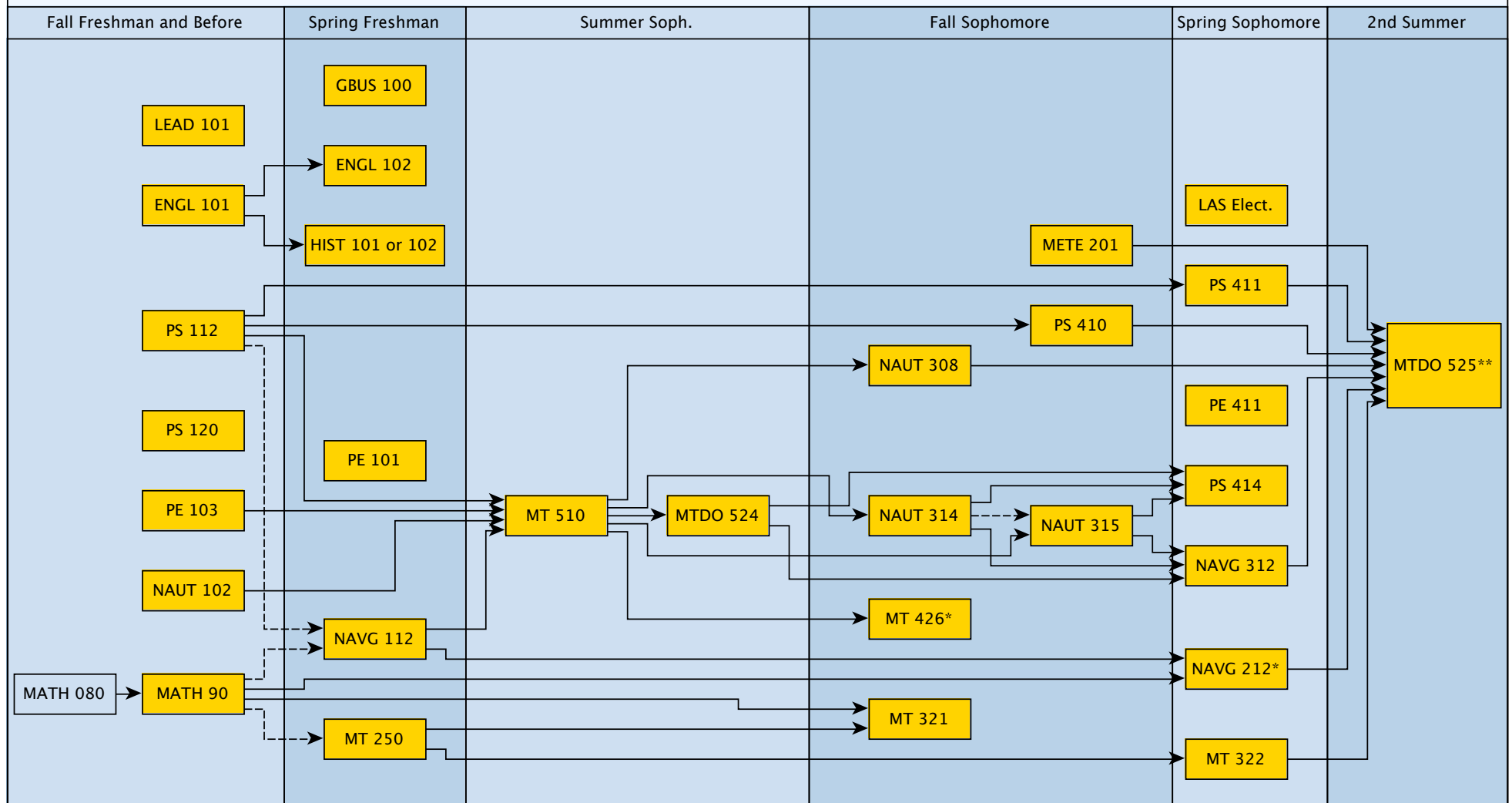
B.S. Maritime Studies – Intern Option Flow Chart for Students Entering in Fall 2014



* The prerequisite for MATH 090 is MATH 080. The prerequisite for MATH 111 is MATH 090.



B.S. Marine Technology: Small Vessel Operations – Deck Limited License Flow Chart for Students Entering in Fall 2014



* required for Ocean Endorsement Option

** NAVG 212 is a prerequisite for MTDO 525 only with Ocean Endorsement Option