## Sample 5-year plan for Freshman Students who need Math 1040 for Calculus ${ }^{1}$ for the Bachelor of Science Degree in Electrical Engineering (Total: 128 Units)

|  | Fall | Spring | Total |
| :---: | :---: | :---: | :---: |
| Year 1 | MATH 1040 - PreCalculus: Functions and Trigonometry (6) <br> COMM 1100 (3) - Oral Comm. <br> ENGR 1500 (3) - Intro to Engr./Tech <br> TOTAL: (12) | MATH 2110 (4) - Calculus I EE 2440 (3) - Digital Engineering ENGL 1010 (3) - Accelerated College Writing US History (3) <br> TOTAL: (13) | 25 |
| Year 2 | MATH 2120 (4) - Calculus II <br> EE 2450 (3) - Embedded programming I <br> EE 2449 (1) - Digital Logic Lab <br> PHYS 2100 (5) - General Physics I <br> ENGL 2030 (3) - Intro to Tech Writing <br> TOTAL: (13) | CHEM 1040 (4) - General Chemistry for Engineers <br> MATH 2130 (3) - Calculus III <br> PHYS 2200 (5) - General Physics II <br> EE 2040 (3)* -- Circuit Analysis I <br> TOTAL: (15) | 31 |
| Year 3 | MATH 2150 (3) - Diff. Equation <br> EE 3020 (3)* -- Signals and Systems <br> EE 3450 (3) - Embedded Sys. Programming II <br> EE 3001 (1) - Numerical Analysis and Modeling Using MATLAB <br> GE: HUMANITIES (3) <br> TOTAL: (13) | EE 2049 (1) - Electrical Measurements and Circ Lab <br> EE 3300 (3) - Electric Machines <br> ENGL 2030 (3) - Intro to Tech Writing <br> POLS 1000 (3) Government and American Society <br> ENGR 3010 (3) - Ethics \& Professionalism in Eng <br> TOTAL: (13) | 33 |
| Year 4 | EE 3040 (3) - Probability, Random Variable, and Random Processes <br> EE 3000 (3) - Econ for Engineers <br> EE 3810 (3) - Sensors \& Instrumentation in BME <br> GE: SOCIAL SCIENCE (3) <br> TOTAL: (12) | EE 3600 (3) - Control Sys. I <br> EE 3700 (3) - Electronics I <br> EE 3200 (3) - Analog Comm. Sys. <br> EE 3030 (3) - Circuit Analysis II <br> TOTAL: (12) | 24 |
| Year 5 | EE 4961 (3) - Senior Design I <br> EE 3050 (3) - Electric \& Magnetic Fields <br> EE ELECTIVE (3) <br> EE ELECTIVE (3) <br> EE ELECTIVE LAB (1) <br> TOTAL: (13) | EE 4962 (3) - Senior Design II <br> EE ELECTIVE (3) <br> EE ELECTIVE (3) <br> EE ELECTIVE (3) <br> TOTAL: (12) | 25 |

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## Sample 5-year plan for Freshman Students who need Math 1082, Math 1083 for Calculus ${ }^{2}$ <br> for the Bachelor of Science Degree in Electrical Engineering (Total: 130 Units)

|  | Fall | Spring | Total |
| :---: | :---: | :---: | :---: |
| Year 1 | MATH 1082 - PreCalculus: Functions, with Lab (4) <br> ENGR 1500 (3) - Intro to Engr./Tech <br> ENGL 1010 (3) - Accelerated College Writing <br> POLS 1000 (3) Government and American Society <br> TOTAL: (13) | MATH 1083 - Mathematical Analysis II (4) EE 2440 (3) - Digital Engineering ENGL 2030 (3) - Intro to Tech Writing GE: SOCIAL SCIENCE (3) <br> TOTAL: (13) | 26 |
| Year 2 | MATH 2110 (4) - Calculus I COMM 1100 (3) - Oral Comm. <br> EE 2450 (3) - Embedded programming I US History (3) <br> TOTAL: (13) | MATH 2120 (4) - Calculus II <br> PHYS 2100 (5) - General Physics I <br> EE 2449 (1) - Digital Logic Lab <br> CHEM 1040 (4) - General Chemistry for Engineers <br> TOTAL: (14) | 27 |
| Year 3 | MATH 2130 (3) - Calculus III <br> PHYS 2200 (5) - General Physics II <br> EE 2040 (3)* -- Circuit Analysis I <br> EE 3001 (1) - Numerical Analysis and Modeling Using MATLAB <br> TOTAL: (12) | MATH 2150 (3) - Diff. Equation <br> EE 2049 (1) - Electrical Measurements and Circuit Lab <br> EE 3020 (3)* -- Signals and Systems <br> EE 3300 (3) - Electric Machines <br> EE 3450 (3) - Embedded Sys. Programming II <br> TOTAL: (13) | 25 |
| Year 4 | EE 3040 (3) - Probability, Random Variable, and Random Processes <br> EE 3000 (3) - Econ for Engineers <br> EE 3810 (3) - Sensors \& Instrumentation in BME <br> ENGR 3010 (3) - Ethics \& Professionalism in Eng <br> TOTAL: (12) | EE 3600 (3) - Control Sys. I <br> EE 3700 (3) - Electronics I <br> EE 3200 (3) - Analog Comm. Sys. <br> EE 3030 (3) - Circuit Analysis II <br> EE ELECTIVE (3) <br> TOTAL: (15) | 27 |
| Year 5 | EE 4961 (3) - Senior Design I <br> EE 3050 (3) - Electric \& Magnetic Fields <br> EE ELECTIVE (3) <br> EE ELECTIVE (3) <br> EE SPECIALIZATION LAB (1) <br> TOTAL: (13) | EE 4962 (3) - Senior Design II <br> EE ELECTIVE (3) <br> EE ELECTIVE (3) <br> GE: HUMANITIES (3) <br> TOTAL: (12) | 25 |

Lower Division GE Requirement: Students need to select from the US History, Blocks C1, and D courses to fulfill the requirement of one race/ethnicity (re) and one diversity (d) course, or two (re) courses.

[^1]Important EE Major Courses: Courses with * are important prerequisites to upper division required courses and students should take them as soon as possible to avoid delays in graduation. Out of the five EE Elective Lectures, at least three need to be selected from the area of specialization.


[^0]:    ${ }^{1}$ To be advised by ECST Student Success Center.

[^1]:    ${ }^{2}$ To be advised by ECST Student Success Center.

