



College of Engineering

Bachelor of Science - Mechanical Engineering

Four-Year Academic Map 2014-2015

| Year 1 | Semester 1 | | | Semester 2 | | | Total |
|----------------|------------|--------------------------------------|----------------|------------|------------------------------------|----|-------|
| | CHEM 1117 | Chemistry for Engineers Lab | 1 | ENGL 1304 | First Year Writing II | 3 | |
| | CHEM 1372 | Chemistry for Engineers | 3 | MECE 1100 | Intro to Mechanical Engineering | 1 | |
| | ENGL 1303 | First Year Writing I | 3 | MECE 1331 | Computing for Mechanical Engineers | 3 | |
| | MATH 1431 | Calculus I | 4 | MATH 1432 | Calculus II | 4 | |
| | POLS 1336 | U.S. & Texas Constitution & Politics | 3 | PHYS 1321 | University Physics I | 3 | |
| | CORE | Creative Arts | 3 | | | | |
| Semester Hours | | 17 | Semester Hours | | 14 | 31 | |

| Year 2 | Semester 1 | | | Semester 2 | | | Total |
|--------|----------------|-------------------------------------|----|----------------|----------------------------|----|-------|
| | MECE 2336 | Mechanics I | 3 | POLS 1337 | U.S. Government | 3 | |
| | ENGI 2304 | Technical Communications | 3 | MATH 3321 | Engineering Mathematics | 3 | |
| | MATH 2433 | Calculus III | 4 | MECE 2334 | Thermodynamics I | 3 | |
| | PHYS 1322 | Physics II | 3 | MECE 3336 | Mechanics II | 3 | |
| | CORE | Language, Philosophy & Culture Core | 3 | MECE 2361 | Intro to Mechanical Design | 3 | |
| | Semester Hours | | 16 | Semester Hours | | 15 | 31 |

| Year 3 | Semester 1 | | | Semester 2 | | | Total |
|----------------|--------------|--------------------------------------|----------------|--------------|---------------------------------|----|-------|
| | MECE 3338 | Dynamics & Control of Mech Systems | 3 | HIST 1378/79 | The United States Since 1877 | 3 | |
| | MATH 3363 | Intro Partial Differential Equations | 3 | MECE 3245 | Materials Science Lab | 2 | |
| | MECE 3369 | Solid Mechanics | 3 | MECE 3381 | Intro to Finite Element Methods | 3 | |
| | MECE 3345 | Materials Science | 3 | MECE 3360 | Experimental Methods | 3 | |
| | CORE | Social & Behavioral Sciences | 3 | MECE 3363 | Intro to Fluid Mechanics | 3 | |
| | HIST 1376/77 | The United States to 1877 | 3 | | | | |
| Semester Hours | | 18 | Semester Hours | | 14 | 32 | |

| Year 4 | Semester 1 | | | Semester 2 | | | Total |
|----------------|------------|---------------------------------------|----------------|---------------------|----------------------------------|----|-------|
| | MECE 4364 | Heat Transfer | 3 | MECE 4341 | Mechanical Engr Capstone II | 3 | |
| | MECE 4340 | Mechanical Engr Capstone I Mechanical | 3 | MECE 4371 <i>or</i> | Thermal-Fluids Lab <i>or</i> | 3 | |
| | MECE 53XX | Engr Elective | 3 | MECE 4372 | Mechanics-Controls-Vibration Lab | 3 | |
| | MECE 4331 | Design of Machine Elements | 3 | MECE 53XX | Mechanical Engr Elective | 3 | |
| | MECE 4343 | Thermal Design | 3 | MECE 53XX | Mechanical Engr Elective | 3 | |
| | | | | MECE 53XX | Mechanical Engr Elective | 3 | |
| Semester Hours | | 15 | Semester Hours | | 15 | 30 | |
| | | | | | | | 124 |

Students should meet with their academic advisor to formulate their own plan.

