

COLLEGE OF ENGINEERING

Bachelor of Science, Industrial Engineering

Four-Year Academic Map 2019-2020

| YEAR 1 | Semester 1 Fall | | | Semester 2 Spring | | | Total | |
|----------------|-----------------|---------------------------------|----|-------------------|-------------------------------|---|-------|----|
| | HIST 1376/77 | The United States To 1877* | 3 | ENGI 1331 | Computing for Engineers | 3 | | |
| | CHEM 1331 | Fundamentals of Chemistry* | 3 | MATH 1432 | Calculus II* | 4 | | |
| | CHEM 1111 | Fundamentals of Chemistry Lab | 1 | PHYS 1321 | University Physics I* | 3 | | |
| | ENGL 1303 | First Year Writing I* | 3 | ENGL 1304 | First Year Writing II* | 3 | | |
| | MATH 1431 | Calculus I* | 4 | HIST 1378/79 | The United States Since 1877* | 3 | | |
| | CORE | Language, Philosophy & Culture* | 3 | ENGI 1100 | Introduction to Engineering | 1 | | |
| Semester Hours | | | 17 | Semester Hours | | | 17 | 34 |

| YEAR 2 | Semester 1 Fall | | | Semester 2 Spring | | | Total | |
|--------|-----------------|--|---|-------------------|------------------------------------|---|-------|----|
| | INDE 2331 | Computer Applications for Industrial Engineering | 3 | INDE 3333 | Engineering Economy I | 3 | | |
| | INDE 3330 | Financial & Cost Management | 3 | MECE 3400 | Introduction to Mechanics | 4 | | |
| | INDE 2333 | Engineering Statistics I | 3 | POLS 1336 | U.S. & TX Constitution & Politics* | 3 | | |
| | MATH 2433 | Calculus III | 4 | ENGI 2304 | Technical Communications* | 3 | | |
| | PHYS 1322 | University Physics II | 3 | MATH 3321 | Engineering Mathematics | 3 | | |
| | Semester Hours | | | 16 | Semester Hours | | | 16 |

| YEAR 3 | Semester 1 Fall | | | Semester 2 Spring | | | Total | |
|--------|-----------------|---------------------------------|---|-------------------|-----------------------------------|---|-------|----|
| | POLS 1337 | U.S. Government* | 3 | CORE | Creative Arts* | 3 | | |
| | INDE 3382 | Stochastic Models | 3 | INDE 3381 | Linear Optimization | 3 | | |
| | INDE 3364 | Engineering Statistics II | 3 | INDE 4331 | Analysis of Industrial Activities | 3 | | |
| | INDE 3310 | Quality Control and Improvement | 3 | INDE 4369 | Facility Planning and Design | 3 | | |
| | INDE 3432 | Manufacturing Processes | 4 | INDE 3362 | CAD/CAM | 3 | | |
| | Semester Hours | | | 16 | Semester Hours | | | 15 |

| YEAR 4 | Semester 1 Fall | | | Semester 2 Spring | | | Total | |
|--------|-----------------|--------------------------------|---|-------------------|----------------------------|---|-------|----|
| | INDE 4370 | Discrete Event Simulation | 3 | INDE 4315 | Supply Chain Management | 3 | | |
| | INDE 4111 | Industrial Engineering Seminar | 1 | INDE 4372 | Operations Control | 3 | | |
| | MECE 2334 | Thermodynamics | 3 | INDE 4337 | Human Factors & Ergonomics | 3 | | |
| | INDE 4320 | Computer-Integrated Mfg. | 3 | INDE 4334 | Engineering Systems Design | 3 | | |
| | CORE | Social & Behavioral Sciences* | 3 | Tech Elective | Technical Elective | 3 | | |
| | Semester Hours | | | 13 | Semester Hours | | | 15 |
| | | | | | | | 125 | |

*State of Texas Core Curriculum

**BSIE program changes are currently under review by the University of Houston Undergraduate Committee; as such, the above information is subject to change.

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