

Name _____

I.D. No. _____

Curriculum Sheet (Effective Fall 2025)

| First Year | | | | | | | |
|------------------------------------|----------------|--------------|-------------|---|----------------|--------------|-------------|
| Fall Semester | Credits | Grade | Core | Spring Semester | Credits | Grade | Core |
| INQ 170 Engineering Launch* | 3 | | IL | ESC 102 Technical Writing & Prof. Comm. | 3 | | RPW |
| ENG 101 Writing I | 3 | | FYV | MTH 182 Calculus II | 4 | | QFR |
| MTH 181 Calculus I | 4 | | QFR | PHY 241 University Physics I | 5 | | SI |
| BIO 200 Introductory Biology I | 3 | | SI | CHM 261 General Chemistry I | 3 | | SI |
| BIO 201 Introductory Biology Lab I | 1 | | SI | CHM 266 General Chemistry Lab I | 1 | | SI |
| MCE 180 Computer Aided Design I | 2 | | | MCE 181 Computer Aided Design II | 2 | | |
| Semester Total | 16 | | | Semester Total | 18 | | |

| Second Year | | | | | | | |
|--|----------------|--------------|-------------|--|----------------|--------------|-------------|
| Fall Semester | Credits | Grade | Core | Spring Semester | Credits | Grade | Core |
| PHY 242 University Physics II | 5 | | SI | BME 300 Introduction to Biomedical Engr. | 3 | | |
| BIO 202 Introductory Biology II | 3 | | SI | Society & Human Behavior Elective (Psychology) | 3 | | SHB |
| BIO 203 Introductory Biology Lab II | 1 | | SI | BIO 266 Human Anatomy & Physiology I | 3 | | |
| CHM 262 General Chemistry II | 3 | | SI | BIO 267 Human Anatomy & Physiology Lab I | 1 | | |
| CHM 267 General Chemistry Lab II | 1 | | SI | CHM 331 Organic Chemistry I | 3 | | |
| ESC 130 Engr/Comp Sci Career Preparation | 1 | | | CHM 336 Organic Chemistry Lab I | 1 | | |
| ESC 250 Differential Equations | 3 | | | ESC 310 Engineering Statistics | 3 | | |
| Semester Total | 17 | | | Semester Total | 17 | | |

| Third Year | | | | | | | |
|-----------------------------------|----------------|--------------|-------------|---|----------------|--------------|-------------|
| Fall Semester | Credits | Grade | Core | Spring Semester | Credits | Grade | Core |
| BME 302 Biofluids/Biotransport | 3 | | | BME 306 Systems Physiology | 3 | | |
| BME 304 Cell & Tissue Biology | 3 | | | ESC 315 Electrical Engineering Concepts | 3 | | |
| ESC 152 Programming with MATLAB | 3 | | | BME 390 Clinical Experience | 1 | | WAC |
| ESC 270 Materials Science | 3 | | | ESC 282 Engineering Economy | 3 | | |
| BIO 306 Biochemistry I | 3 | | | BIO 310 Genetics | 3 | | |
| BIO 307 Biochemistry I Recitation | 1 | | | BIO 311 Genetics Recitation | 1 | | |
| Semester Total | 16 | | | Semester Total | 14 | | |

| Fourth Year | | | | | | | |
|---|----------------|--------------|-------------|--|----------------|--------------|-------------|
| Fall Semester | Credits | Grade | Core | Spring Semester | Credits | Grade | Core |
| PHL 215 Technology Ethics | 3 | | HCC | BME 430 Biomed Signals & Instrumentation | 3 | | |
| BME 440 BME Senior Design I | 3 | | WAC | BME 441 BME Senior Design II | 3 | | |
| BME 495 Biomedical Engineering Research | 3 | | | Global Human Perspectives Elective | 3 | | GHP |
| BME Technical Elective** | 3 | | | BME Technical Elective** | 3 | | |
| African-American History & Culture Elective | 3 | | AAHC | Diversity in Society Elective | 3 | | DIS |
| Semester Total | 15 | | | Semester Total | 15 | | |

Degree Total hours: 128

Core Curriculum Key:

| | |
|---|---|
| GHP = Global Human Perspectives (one course) | QFR = Quantitative & Formal Reasoning (one course) |
| IL = Inquiry Launch (one course)* | RPW = Research & Professional Writing (one course, C or better required) |
| FYV = Finding Your Voice (one course, C or better required) | HCC = Human Culture & Creativity (one course) |
| SHB = Society & Human Behavior (one course) | WAC/SPAC = Writing/Speaking Across the Curriculum Req (2 courses, one in the major) |
| SI = Scientific Inquiry (two courses, one lab credit) | AAHC = African-American History & Culture (one course) |
| GHP = Global Human Perspectives (one course) | DiS = Diversity in Society (one course) |
| DDL = Data & Digital Literacy (one course, can be satisfied by a second QFR course) | |

INQ 170 is required for an engineering, technology, and computer science majors, and meets the core curriculum requirement for Inquiry Launch. ESC 120 is required in place of INQ 170 in the following cases: (a) transfer students; however, those who have had co-op experience in engineering/computer science and/or have transferred 12 credits of engineering/computer science courses can petition to waive ESC 120; (b) students who, as freshmen at CSU, started in another major and completed an Inquiry Launch course different from INQ 170; (c) Honors students who take the Honors Inquiry Launch course. Neither INQ 170 nor ESC 120 is required for transfer students with an Associates of Applied Science degree.

** Students who complete cooperative education credit hours (ESC 300/400) may use up to three of these credit hours to replace one technical elective.

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