

Degree Completion Plan: Aerospace Engineering (Aeronautics) B.S.E.

| Year 1 | | | | | | | | | | | | | | | |
|--------|-----|-------------|------------------------------|-------|-------|-----|-------------|-----------------------------|-------|--------|-----|-------------|-------------------------------|-------|----|
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 265 | Calculus for Engineers I | | 3 | MAT | 266 | Calculus for Engineers II | | 3 | MAT | 267 | Calculus for Engineers III | | 3 |
| 2 | MAE | 215 | Intro. To Programming | | 1 | PHY | 121 | Univ. Physics I: Mechanics | | 3 | PHY | 131 | Univ. Physics II: Elec. Mag. | | 3 |
| 3 | CHM | 114 | Gen. Chemistry for Engineers | | 4 | PHY | 122 | Univ. Physics I: Lab | | 1 | PHY | 132 | Univ. Physics II: Lab | | 1 |
| 4 | | | | | | MAT | 242 | Elementary Linear Algebra | | 2 | MAT | 275 | Modern Diff. Equations | | 3 |
| 5 | | | | | | FSE | 100 | Intro. To Engineering | | 2 | MAE | 201 | Mechanics I: Statics | | 3 |
| 6 | | | | | | ENG | 101 | First Year Composition I | | 3 | MAE | 214 | Computer-Aided Eng. I | | 1 |
| 7 | | | | | | ASU | 101 | The ASU Experience | | 1 | ENG | 102 | First Year Composition II | | 3 |
| | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| T | | | | | 8 | | | | | 17 | | | | | 19 |
| Year 2 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAE | 202 | Mechanics II: Dynamics | | 3 | MAE | 213 | Mechanics of Materials | | 3 | AEE | 313 | Aircraft Dynamics and Control | | 3 |
| 2 | MAE | 384 | Adv. Math Methods for Eng. | | 3 | MAE | 241 | Intro. to Thermodynamics | | 3 | AEE | 325 | Aero. Structures and Mat. | | 4 |
| 3 | MAE | 242 | Intro. to Fluid Mechanics | | 3 | MAE | 301 | Applied Experimental Stats | | 3 | AEE | 344 | Fund. Of Aircraft Design | | 3 |
| 4 | EEE | 202 | Circuits I | | 4 | MAE | 318 | Sys. Dynamics and Control I | | 4 | AEE | 362 | High-Speed Aerodynamics | | 4 |
| 5 | | | | | | AEE | 360 | Aerodynamics | | 3 | NAV | 194 | Naval Leadership Lab | | 1 |
| 6 | | | | | | AEE | 361 | Aerodynamics Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | | | | | |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | |
| T | | | | | 13 | | | | | 19 | | | | | 16 |
| Year 3 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ### | ### | Humanity | | 3 | MAE | 400 | Engineering Profession | | 3 | AEE | 462 | Space Vehicle Dyn. & Ctrl. | | 3 |
| 2 | ### | ### | Social Behavioral (G) | | 3 | AEE | 415 | Vibration Analysis | | 3 | AEE | 468 | Aircraft Systems Design | | 3 |
| 3 | ### | ### | Humanity (C) | | 3 | AEE | 463 | Aircraft Propulsion | | 3 | ### | ### | UD Technical Elective | | 3 |
| 4 | ### | ### | Social Behavioral (H) | | 3 | ### | ### | UD Technical Elective | | 3 | ### | ### | UD HU or SB | | 3 |
| 5 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 6 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 7 | | | | | | NAV | 294 | Leadership and Management | | 3 | NAV | 402 | Leadership and Ethics | | 3 |
| 8 | | | | | | | | | | | | | | | |
| T | | | | | 12 | | | | | 17 | | | | | 17 |

Total

138

Enclosure (1)

Degree Completion Plan: Chemical Engineering B.S.E.

| Year 1 | | | | | | | | | | | | | | |
|--------|-----|-------------|-------------------------------|-------|-------|------|-------------|-------------------------------|-------|--------|-----|-------------|------------------------------|-------|
| Summer | | | | | Fall | | | | | Spring | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours |
| DEPT | # | DEPT | | | # | DEPT | # | | | | | | | |
| 1 | MAT | 265 | Calculus for Engineers I | | 3 | MAT | 266 | Calculus for Engineers II | | 3 | MAT | 267 | Calculus for Engineers III | 3 |
| 2 | ### | ### | Humanity (C) | | 3 | PHY | 121 | Univ. Physics I: Mechanics | | 3 | MAT | 242 | Elementary Linear Algebra | 2 |
| 3 | CHM | 113 | General Chemistry I | | 4 | PHY | 122 | Univ. Physics I: Lab | | 1 | PHY | 131 | Univ. Physics II: Elec. Mag. | 3 |
| 4 | | | | | | CHM | 116 | General Chemistry II | | 4 | PHY | 132 | Univ. Physics II: Lab | 1 |
| 5 | | | | | | FSE | 100 | Intro. to Engineering | | 2 | CHM | 233 | General Organic Chemistry I | 3 |
| 6 | | | | | | ENG | 101 | First Year Composition I | | 3 | CHM | 237 | Gen. Organic Chemistry Lab I | 1 |
| 7 | | | | | | ASU | 101 | The ASU Experience | | 1 | ENG | 102 | First Year Composition II | 3 |
| | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | 1 |
| T | | | | | 10 | | | | | 19 | | | | 18 |
| Year 2 | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours |
| DEPT | # | DEPT | | | # | DEPT | # | | | | | | | |
| 1 | CHE | 211 | Intro. to Chemical Processing | | 3 | CHM | 234 | General Organic Chemistry II | | 3 | CHE | 433 | Modern Separations | 3 |
| 2 | CHE | 231 | Intro. to Fluids I | | 3 | CHE | 334 | Heat and Mass Transfer | | 3 | CHE | 442 | Chemical Reactor Design | 3 |
| 3 | MAT | 275 | Modern Diff. Equations | | 3 | CHE | 342 | Applied Chemical Thermodyn. | | 3 | CHE | 352 | Chemical Eng. Lab I | 3 |
| 4 | ### | ### | Humanity | | 3 | CHE | 384 | Numerical Methods | | 3 | IEE | 220 | Business and Industrial Eng. | 3 |
| 5 | | | | | | ### | ### | UD Adv. Technical Elective | | 3 | ### | ### | Engineering Elective | 3 |
| 6 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | 1 |
| 7 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | 1 |
| 8 | | | | | | | | | | | | | | |
| T | | | | | 12 | | | | | 17 | | | | 17 |
| Year 3 | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours |
| DEPT | # | DEPT | | | # | DEPT | # | | | | | | | |
| 1 | ### | ### | Social Behavioral (G) | | 3 | CHE | 432 | Prin. of Chemical Eng. Design | | 3 | CHE | 462 | Process Design | 3 |
| 2 | ### | ### | UD HU or SB | | 3 | CHE | 451 | Chemical Eng. Lab II | | 3 | ### | ### | UD CHE Technical Elective | 3 |
| 3 | ### | ### | Social Behavioral (H) | | 3 | CHE | 461 | Process Dynamics Control | | 3 | ### | ### | UD CHE Technical Elective | 3 |
| 4 | ### | ### | Bioscience Elective | | 3 | ### | ### | UD Nat Science/Tech Elective | | 3 | ### | ### | UD Adv. Technical Elective | 3 |
| 5 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | 1 |
| 6 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | 1 |
| 7 | | | | | | Nav | 294 | Leadership and Management | | 3 | NAV | 402 | Leadership and Ethics | 3 |
| 8 | | | | | | | | | | | | | | |
| T | | | | | 12 | | | | | 17 | | | | 17 |

Total

139

Enclosure (1)

Degree Completion Plan: Civil Engineering B.S.E.

| Year 1 | | | | | | | | | | | | | | | |
|--------|-----|-------------|------------------------------|-------|-------|-----|-------------|------------------------------|-------|--------|-----|-------------|--------------------------------|-------|----|
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 265 | Calculus for Engineers I | | 3 | MAT | 266 | Calculus for Engineers II | | 3 | CEE | 210 | Eng. Mechanics I: Statics | | 3 |
| 2 | ENG | 101 | First Year Composition I | | 3 | MAT | 242 | Elementary Linear Algebra | | 2 | MAT | 267 | Calculus for Engineers III | | 3 |
| 3 | ECN | 211/2 | Micro/Macroeconomics | | 3 | FSE | 100 | Intro. To Engineering | | 2 | MAT | 275 | Modern Diff. Equations | | 3 |
| 4 | ### | ### | Humanity (G) | | 3 | ASU | 101 | The ASU Experience | | 1 | CHM | 114 | Micro/Macroeconomics | | 4 |
| 5 | | | | | | ENG | 102 | First Year Composition II | | 3 | ### | ### | HU or SB | | 3 |
| 6 | | | | | | PHY | 121 | Univ. Physics I: Mechanics | | 3 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | PHY | 122 | Univ. Physics I: Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | | | | | |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | |
| T | | | | | 12 | | | | | 17 | | | | | 18 |
| Year 2 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | CEE | 212 | Eng. Mechanics II: Dynamics | | 3 | CEE | 321 | Structural Analysis & Design | | 4 | CEE | 384 | Numerical Methods for Eng. | | 3 |
| 2 | CEE | 213 | Intro. to Deformable Solids | | 3 | CEE | 351 | Geotechnical Engineering | | 4 | CEE | 361 | Intro. Environmental Eng. | | 4 |
| 3 | IEE | 380 | Prob. & Statistics for Eng. | | 3 | CEE | 353 | Civil Engineering Materials | | 4 | CEE | 341 | Fluid Mechanics for Civil Eng. | | 4 |
| 4 | PHY | 131 | Univ. Physics II: Elec. Mag. | | 3 | ### | ### | BIO181/CHM231/GLG101 | | 4 | CEE | 372 | Transportation Eng. | | 3 |
| 5 | PHY | 132 | Univ. Physics II: Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 294 | Leadership & Management | | 3 |
| 6 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | | | | | | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | | | | | | | | | | |
| T | | | | | 13 | | | | | 18 | | | | | 19 |
| Year 3 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | CEE | 300 | Eng. Business Practice (L) | | 3 | CEE | 400 | Earth Systems Eng. | | 3 | CEE | 486 | Integrated Civil Eng. Design | | 4 |
| 2 | MAE | 241 | Intro. To Thermodynamics | | 3 | ### | ### | UD Design Elective | | 3 | ### | ### | Technical Elective | | 3 |
| 3 | ### | ### | UD Design Elective | | 3 | ### | ### | Technical Elective | | 3 | ### | ### | Technical Elective | | 3 |
| 4 | ### | ### | Social Behavioral (C) | | 3 | ### | ### | Technical Elective | | 3 | NAV | 402 | Leadership and Ethics | | 3 |
| 5 | | | | | | ### | ### | STEM Credit lower division | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 6 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 7 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 402 | Leadership and Ethics | | 3 |
| 8 | | | | | | NAV | 294 | Leadership and Management | | 3 | | | | | |
| T | | | | | 12 | | | | | 18 | | | | | 18 |

Total

145

Enclosure (1)

Degree Completion Plan: Computer Systems Engineering B.S.E.

| Year 1 | | | | | | | | | | | | | | | |
|--------|-----|-------------|------------------------------|-------|-------|-----|-------------|---------------------------------|-------|--------|-----|-------------|-----------------------------|-------|----|
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 265 | Calculus for Engineers I | | 3 | MAT | 266 | Calculus for Engineers II | | 3 | MAT | 267 | Calculus for Engineers III | | 3 |
| 2 | CSE | 110 | Prin. Of Programming | | 3 | CSE | 205 | Obj-Oriented Programming | | 3 | CSE | 120 | Digital Design Fundamentals | | 3 |
| 3 | ENG | 101 | First Year Composition I | | 3 | FSE | 100 | Intro. to Engineering | | 2 | MAT | 243 | Discrete Math Structures | | 3 |
| 4 | | ### | Biology or Chemistry Course | | 4 | ENG | 102 | First Year Composition II | | 3 | PHY | 121 | Univ. Physics I: Mechanics | | 3 |
| 5 | | | | | | ASU | 101 | The ASU Experience | | 1 | PHY | 122 | Univ. Physics I: Lab | | 1 |
| 6 | | | | | | ### | ### | Social Behavioral (G) | | 3 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | |
| T | | | | | 13 | | | | | 17 | | | | | 15 |
| Year 2 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | CSE | 220 | Programming for Comp. Eng. | | 3 | CSE | 310 | Data Struct. and Algorithms | | 3 | CSE | 325 | Embedded Microprocessors | | 3 |
| 2 | CSE | 230 | Computer Assembly Language | | 3 | CSE | 301 | Computing Ethics | | 1 | CSE | 330 | Operating Systems | | 3 |
| 3 | MAT | 275 | Modern Diff. Equation | | 3 | CSE | 320 | Design and Synthesis of Digital | | 3 | CSE | 360 | Intro. to Software Eng. | | 3 |
| 4 | PHY | 131 | Univ. Physics II: Elec. Mag. | | 3 | EEE | 202 | Circuits I | | 4 | EEE | 334 | Circuits II | | 4 |
| 5 | PHY | 132 | Univ. Physics II: Lab | | 1 | IEE | 380 | Prob. And Stats for Eng. | | 3 | MAT | 343 | Applied Linear Algebra | | 3 |
| 6 | | | | | | ### | ### | Humanity (C) | | 3 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | |
| T | | | | | 13 | | | | | 19 | | | | | 18 |
| Year 3 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ### | ### | UD HU or SB | | 3 | CSE | 423 | Systems Capstone Project I | | 3 | CSE | 424 | Systems Capstone Project II | | 3 |
| 2 | ### | ### | CSE Technical Elective | | 3 | CSE | 434 | Computer Networks | | 3 | ### | ### | Social Behavioral (H) | | 3 |
| 3 | ### | ### | CSE Technical Elective | | 3 | ### | ### | CSE Technical Elective | | 3 | ### | ### | CSE Technical Elective | | 3 |
| 4 | ### | ### | Humanity | | 3 | CSE | 420 | Computer Architecture I | | 3 | NAV | 402 | Leadership and Ethics | | 3 |
| 5 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 6 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 7 | | | | | | NAV | 294 | Leadership and Management | | 3 | | | | | |
| 8 | | | | | | | | | | | | | | | |
| T | | | | | 12 | | | | | 17 | | | | | 14 |

Total

138

Enclosure (1)

Degree Completion Plan: Computer Science B.S.

| Year 1 | | | | | | | | | | | | | | | |
|--------|-----|-------------|------------------------------|-------|-------|-----|-------------|-------------------------------|-------|--------|-----|-------------|-----------------------------|-------|----|
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 265 | Calculus for Engineers I | | 3 | MAT | 266 | Calculus for Engineers II | | 3 | MAT | 267 | Calculus for Engineers III | | 3 |
| 2 | CSE | 110 | Prin. Of Programming | | 3 | CSE | 205 | Obj-Oriented Programming | | 3 | PHY | 131 | Univ. Physics I: Mechanics | | 3 |
| 3 | ENG | 101 | First Year Composition I | | 3 | FSE | 100 | Intro. to Engineering | | 2 | PHY | 132 | Univ. Physics I: Lab | | 1 |
| 4 | ### | ### | Natural Science | | 4 | ENG | 102 | First Year Composition II | | 3 | CSE | 120 | Digital Design Fundamentals | | 3 |
| 5 | ### | ### | Elective | | 1 | ASU | 101 | The ASU Experience | | 1 | CSE | 240 | Intro. to Programming Lang. | | 3 |
| 6 | | | | | | ### | ### | Social Behavioral (G) | | 3 | MAT | 243 | Discrete Math Structures | | 3 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| T | | | | | 14 | | | | | 17 | | | | | 18 |
| Year 2 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | CSE | 230 | Computer Assembly Language | | 3 | CSE | 355 | Theoretical Comp. Science | | 3 | CSE | 330 | Operating Systems | | 3 |
| 2 | CSE | 310 | Data Struct. and Algorithms | | 3 | CSE | 301 | Computing Ethics | | 1 | CSE | 340 | Prin. Of Programming Lang. | | 3 |
| 3 | PHY | 131 | Univ. Physics II: Elec. Mag. | | 3 | CSE | 360 | Operating Systems | | 3 | CSE | ### | 412 or 434 or 445 | | 3 |
| 4 | PHY | 132 | Univ. Physics II: Lab | | 1 | CSE | 365 | Information Assurance | | 3 | MAT | 343 | Applied Linear Algebra | | 3 |
| 5 | | | | | | IEE | 380 | Prob. & Stats for Engineering | | 3 | ### | ### | Elective | | 2 |
| 6 | | | | | | ### | ### | Social Behavioral (H) | | 3 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | |
| T | | | | | 10 | | | | | 18 | | | | | 16 |
| Year 3 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ### | ### | Humanity | | 3 | CSE | 485 | Comp. Science Capstone I | | 3 | CSE | 486 | Comp. Science Capstone II | | 3 |
| 2 | ### | ### | UD Technical Elective | | 3 | ### | ### | UD Technical Elective | | 3 | CSE | 4** | Elective | | 3 |
| 3 | ### | ### | Elective | | 2 | CSE | 4** | Elective | | 3 | ### | ### | Humanity (C) | | 3 |
| 4 | | | | | | CSE | 4** | Elective | | 3 | CSE | 4** | Elective | | 3 |
| 5 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 6 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 7 | | | | | | NAV | 294 | Leadership and Management | | 3 | NAV | 402 | Leadership and Ethics | | 3 |
| 8 | | | | | | | | | | | | | | | |
| T | | | | | 8 | | | | | 17 | | | | | 17 |

Total

135

Enclosure (1)

Degree Completion Plan: Electrical Engineering B.S.E.

| Year 1 | | | | | | | | | | | | | | | |
|--------|-----|-------------|------------------------------|-------|-------|-----|-------------|-----------------------------|--------|-------|-----|-------------|------------------------------|-------|----|
| Summer | | | | | Fall | | | | Spring | | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 265 | Calculus for Engineers I | | 3 | MAT | 266 | Calculus for Engineers II | | 3 | MAT | 267 | Calculus for Engineers III | | 3 |
| 2 | CHM | 114 | Gen. Chemistry for Engineers | | 4 | PHY | 121 | Univ. Physics I: Mechanics | | 3 | PHY | 131 | Univ. Physics II: Elec. Mag. | | 3 |
| 3 | | | | | | PHY | 122 | Univ. Physics I: Lab | | 1 | PHY | 132 | Univ. Physics II: Lab | | 1 |
| 4 | | | | | | FSE | 100 | Intro. To Engineering | | 2 | MAT | 275 | Modern Diff. Equation | | 3 |
| 5 | | | | | | EEE | 120 | Digital Design Fundamentals | | 3 | EEE | 202 | Circuits I | | 4 |
| 6 | | | | | | ENG | 101 | First Year Composition I | | 3 | CSE | 100 | Prin. Of Programming C++ | | 3 |
| 7 | | | | | | ASU | 101 | The ASU Experience | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 8 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | |
| T | | | | | 7 | | | | | 18 | | | | | 19 |
| Year 2 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | Spring | | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ENG | 102 | First Year Composition II | | 3 | PHY | 241 | Univ. Physics III | | 3 | ### | ### | UD Area Pathway Course | | 3 |
| 2 | EEE | 203 | Signals and Systems I | | 3 | EEE | 334 | Circuits II | | 4 | ### | ### | UD Area Pathway Course | | 3 |
| 3 | MAT | 343 | Applied Linear Algebra | | 3 | EEE | 230 | Computer Assembly Lang. | | 3 | ### | ### | UD Area Pathway Course | | 3 |
| 4 | | | | | | EEE | 350 | Random Signal Analysis | | 3 | ### | ### | UD Area Pathway Course | | 3 |
| 5 | | | | | | EEE | 241 | Fund. Of Electromagnetics | | 3 | ### | ### | UD Technical Elective | | 3 |
| 6 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | ECN | 211/2 | Macro or Microeconomics | | 3 |
| 7 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 8 | | | | | | | | | | | NAV | 194 | Naval Physical Training | | 1 |
| T | | | | | 9 | | | | | 18 | | | | | 20 |
| Year 3 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | Spring | | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ### | ### | UD Math/Science/Eng. | | 3 | EEE | 488 | Senior Design Lab I (L) | | 3 | EEE | 489 | Senior Design Lab II (L) | | 3 |
| 2 | ### | ### | Humanity (H) | | 3 | ### | ### | UD Area Pathway Course | | 4 | ### | ### | Humanity (C) | | 3 |
| 3 | ### | ### | Social Behavioral (G) | | 3 | ### | ### | UD Technical Elective | | 3 | ### | ### | UD HU or SB | | 3 |
| 4 | | | | | | ### | ### | UD Technical Elective | | 3 | ### | ### | UD Technical Elective | | 3 |
| 5 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | ### | ### | UD Technical Elective | | 3 |
| 6 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 294 | Leadership and Management | | 3 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | | | | | | NAV | 402 | Leadership and Ethics | | 3 |
| T | | | | | 9 | | | | | 18 | | | | | 20 |

Total

138

Enclosure (1)

Degree Completion Plan: Industrial Engineering B.S.E.

| Year 1 | | | | | | | | | | | | | | | |
|--------|-----|-------------|-----------------------------|-------|-------|-----|-------------|-------------------------------|-------|--------|-----|-------------|--------------------------------|-------|----|
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 265 | Calculus for Engineers I | | 3 | MAT | 266 | Calculus for Engineers II | | 3 | MAT | 267 | Calculus for Engineers III | | 3 |
| 2 | ENG | 101 | First Year Composition I | | 3 | CSE | 205 | Obj. Oriented Programming | | 3 | CHM | 114 | Chemistry for Engineers | | 4 |
| 3 | CSE | 110 | Prin. Of Programming Java | | 3 | FSE | 100 | Intro. to Engineering | | 2 | IEE | 210 | Intro. to Industrial Eng. | | 3 |
| 4 | | | | | | ENG | 102 | First Year Composition II | | 3 | MSE | 250 | Struct. and Prop. of Materials | | 3 |
| 5 | | | | | | ASU | 101 | The ASU Experience | | 1 | ### | ### | Humanity (H) | | 3 |
| 6 | | | | | | ### | ### | Social Behavioral (G) | | 3 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | |
| T | | | | | 9 | | | | | 17 | | | | | 18 |
| Year 2 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | PHY | 121 | Univ. Physics I: Mechanics | | 3 | MAT | 275 | Modern Diff. Equations | | 3 | MAT | 343 | Applied Linear Algebra | | 3 |
| 2 | PHY | 122 | Univ. Physics I: Lab | | 1 | PHY | 131 | Univ. Physics II: Elec. Mag. | | 3 | IEE | 305 | Information Systems Eng. | | 3 |
| 3 | IEE | 380 | Prob. & Stats for Engineers | | 3 | PHY | 132 | Univ. Physics II: Lab | | 1 | IEE | 321 | Ethics and Technical Comm. | | 1 |
| 4 | ECN | 211/2 | Micro/Macroeconomics | | 3 | IEE | 385 | Engineering Statistics: Prob. | | 3 | IEE | 369 | Work Analysis and Design | | 3 |
| 5 | | | | | | IEE | 300 | Economics Analysis for Eng. | | 3 | IEE | 376 | Operations Research | | 4 |
| 6 | | | | | | MAE | 201 | Mechanics of Particles | | 3 | IEE | 4## | IEE Elective | | 3 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| T | | | | | 10 | | | | | 18 | | | | | 19 |
| Year 3 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ### | ### | UD HU or SB | | 3 | IEE | 485 | Systems Design Capstone I | | 3 | IEE | 486 | Systems Design Capstone II | | 3 |
| 2 | IEE | 470 | Stochastic Op. Research | | 3 | IEE | 474 | Quality Control | | 3 | IEE | 4## | Elective | | 3 |
| 3 | IEE | 4## | IEE Elective | | 3 | IEE | 475 | Simulating Stochastic Systems | | 4 | ### | ### | Engineering Science Elective | | 3 |
| 4 | IEE | ### | Major Elective | | 3 | IEE | 461 | Product Control | | 3 | ### | ### | Humanity (C) | | 3 |
| 5 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 6 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 7 | | | | | | NAV | 294 | Leadership and Management | | 3 | NAV | 402 | Leadership and Ethics | | 3 |
| 8 | | | | | | | | | | | | | | | |
| T | | | | | 12 | | | | | 18 | | | | | 17 |

Total

138

Enclosure (1)

Degree Completion Plan: Mechanical Engineering B.S.E.

| Year 1 | | | | | | | | | | | | | | | |
|--------|-----|-------------|----------------------------|-------|-------|-----|-------------|----------------------------|-------|--------|-----|-------------|------------------------------|-------|----|
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 265 | Calculus for Engineers I | | 3 | MAT | 266 | Calculus for Engineers II | | 3 | MAT | 267 | Calculus for Engineers III | | 3 |
| 2 | CHM | 114 | Chemistry for Engineers | | 4 | PHY | 121 | Univ. Physics I: Mechanics | | 3 | PHY | 131 | Univ. Physics II: Elec. Mag. | | 3 |
| 3 | MAE | 215 | Intro. to Programming | | 1 | PHY | 122 | Univ. Physics I: Lab | | 1 | PHY | 132 | Univ. Physics II: Lab | | 1 |
| 4 | | | | | | MAT | 242 | Elementary Linear Algebra | | 2 | MAT | 275 | Modern Diff. Equations | | 3 |
| 5 | | | | | | FSE | 100 | Intro. to Engineering | | 2 | MAE | 201 | Statics | | 3 |
| 6 | | | | | | ENG | 101 | First Year Composition I | | 3 | MAE | 214 | Computer-Aided Eng. I | | 1 |
| 7 | | | | | | ASU | 101 | The ASU Experience | | 1 | ENG | 102 | First Year Composition II | | 3 |
| | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| T | | | | | 8 | | | | | 17 | | | | | 19 |
| Year 2 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAE | 202 | Dynamics | | 3 | EEE | 202 | Circuits I | | 4 | MEE | 340 | Heat Transfer | | 3 |
| 2 | MAE | 213 | Mechanics of Materials | | 3 | MEE | 322 | Structural Mechanics | | 3 | MEE | 342 | Prin. Of Mechanical Design | | 3 |
| 3 | MAE | 241 | Intro. to Thermodynamics | | 3 | MEE | 324 | Structural Mechanics Lab | | 1 | MAE | 318 | System Dynamics & Ctrl. I | | 4 |
| 4 | MAE | 384 | Adv. Math Methods for Eng. | | 3 | MAE | 242 | Intro. to Fluid Mechanics | | 3 | MAE | 400 | Engineering Profession | | 3 |
| 5 | | | | | | MAE | 301 | Applied Experimental Stats | | 3 | MEE | 323 | Computer-Aided Eng. II | | 2 |
| 6 | | | | | | MSE | 250 | Structure & Prop. of Mat. | | 3 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | |
| T | | | | | 12 | | | | | 19 | | | | | 17 |
| Year 3 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ### | ### | Social Behavioral (G) | | 3 | MEE | 488 | Mechanical Eng. Design I | | 3 | MEE | 489 | Mechanical Eng. Design II | | 3 |
| 2 | ### | ### | Humanity (C) | | 3 | MEE | 491 | Experimental Mech. Eng. | | 3 | MAE | 417 | System Dynamics & Ctrl. II | | 3 |
| 3 | ### | ### | Social Behavioral (H) | | 3 | ### | ### | UD Technical Elective | | 3 | ### | ### | UD Technical Elective | | 3 |
| 4 | | | | | | ### | ### | UD Technical Elective | | 3 | ### | ### | Humanity | | 3 |
| 5 | | | | | | ### | ### | UD HU or SB | | 3 | NAV | 402 | Leadership and Ethics | | 3 |
| 6 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 294 | Leadership and Management | | 3 | | | | | |
| T | | | | | 9 | | | | | 20 | | | | | 17 |

Total

138

Enclosure (1)

Degree Completion Plan: Materials Science and Engineering B.S.E.

| Year 1 | | | | | | | | | | | | | | | |
|--------|-----|-------------|--------------------------|-------|-------|-----|-------------|------------------------------|-------|--------|-----|-------------|--------------------------------|-------|----|
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 265 | Calculus for Engineers I | | 3 | MAT | 266 | Calculus for Engineers II | | 3 | MAT | 267 | Calculus for Engineers III | | 3 |
| 2 | CHM | 114 | Chemistry for Engineers | | 4 | PHY | 121 | Univ. Physics I: Mechanics | | 3 | PHY | 131 | Univ. Physics II: Elec. Mag. | | 3 |
| 3 | ### | ### | Social Behavioral (G) | | 3 | PHY | 122 | Univ. Physics I: Lab | | 1 | PHY | 132 | Univ. Physics II: Lab | | 1 |
| 4 | | | | | | FSE | 100 | Intro. to Engineering | | 2 | MSE | 211 | Intro. to Mech. of Materials | | 3 |
| 5 | | | | | | ENG | 101 | First Year Composition I | | 3 | MSE | 212 | Microstructure & Prop. Lab | | 1 |
| 6 | | | | | | MSE | 250 | Structure and Prop. Of Mat. | | 3 | ENG | 102 | First Year Composition II | | 3 |
| 7 | | | | | | ASU | 101 | The ASU Experience | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | ### | ### | Social Behavioral (H) | | 3 |
| T | | | | | 10 | | | | | 18 | | | | | 19 |
| Year 2 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 275 | Modern Diff. Equations | | 3 | MSE | 215 | Materials Synthesis | | 3 | MSE | 458 | Elec., Mag., and Optics Prop. | | 3 |
| 2 | MAT | 343 | Applied Linear Algebra | | 3 | MSE | 355 | Structure and Defects | | 3 | MSE | 335 | Materials Kinetics | | 3 |
| 3 | ### | ### | Math or Science Elective | | 3 | MSE | 356 | Structures, Prop., & Defects | | 1 | MSE | 450 | Materials Characterization | | 3 |
| 4 | | | | | | MSE | 330 | Thermodynamics of Materials | | 3 | MSE | 451 | Materials Characterization Lab | | 1 |
| 5 | | | | | | MSE | 415 | Math & Computer Methods | | 3 | MSE | 420 | Adv. Metallurgical Alloys | | 3 |
| 6 | | | | | | MSE | 457 | Quantum Mechanics | | 3 | IEE | 380 | Prob. & Stats for Engineering | | 3 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| T | | | | | 9 | | | | | 18 | | | | | 18 |
| Year 3 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ### | ### | Humanity | | 3 | MSE | 489 | Capstone Design Project I | | 1 | MSE | 490 | Capstone Design Project II | | 2 |
| 2 | ### | ### | Adv. Science Elective | | 3 | MSE | 482 | Materials Engineering Design | | 3 | ### | ### | Technical Elective | | 3 |
| 3 | ### | ### | UD HU or SB | | 3 | MSE | 440 | Mechanical Behavior of Mat. | | 3 | ### | ### | Technical Elective | | 3 |
| 4 | | | | | | ### | ### | UD Materials Elective | | 3 | ### | ### | Adv. Science Elective | | 3 |
| 5 | | | | | | ### | ### | UD Materials Elective | | 3 | ### | ### | Humanity (C) | | 3 |
| 6 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 402 | Leadership and Ethics | | 3 |
| 7 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 8 | | | | | | NAV | 294 | Leadership and Management | | 3 | NAV | 194 | Naval Physical Training | | 1 |
| T | | | | | 9 | | | | | 18 | | | | | 19 |

Total

138

Enclosure (1)

| Degree Completion Plan: Biochemistry B.S. | | | | | | | | | | | | | | | |
|---|-----|-------------|-----------------------|-------|-------|-----|-------------|---------------------------------|-------|--------|-----|-------------|----------------------------------|-------|----|
| Year 1 | | | | | Fall | | | | | Spring | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | BIO | 181 | General Biology I | | 4 | MAT | 270 | Calc With Analytical Geometry I | | 4 | MAT | 271 | Calc With Analytical Geometry II | | 4 |
| 2 | BIO | 182 | General Biology II | | 4 | CHM | 117 | General Chemistry I | | 3 | CHM | 118 | General Chemistry II | | 3 |
| 3 | | | | | | CHM | 111 | General Chemistry Lab I | | 1 | CHM | 112 | General Chemistry Lab II | | 1 |
| 4 | | | | | | LIA | 101 | Special Topic | | 1 | ENG | 102 | First Year Composition II | | 3 |
| 5 | | | | | | ENG | 101 | First Year Composition I | | 3 | ### | ### | Social Behavioral (C) | | 3 |
| 6 | | | | | | ### | ### | Literacy (L) | | 3 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | |
| T | | | | | 8 | | | | | 17 | | | | | 16 |
| Year 2 | | | | | Fall | | | | | Spring | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ### | ### | Social Behavioral (G) | | 3 | CHM | 233 | General Organic Chemistry I | | 3 | CHM | 234 | General Organic Chemistry II | | 3 |
| 2 | ### | ### | UD Elective | | 3 | CHM | 237 | Organic Chemistry Lab | | 1 | CHM | 238 | Organic Chemistry Lab | | 1 |
| 3 | ### | ### | UD Elective | | 3 | BIO | ### | Advanced Bio Elective | | 4 | PHY | 112 | General Physics | | 3 |
| 4 | | | | | | PHY | 111 | General Physics | | 3 | PHY | 114 | General Physics Lab | | 1 |
| 5 | | | | | | PHY | 113 | General Physics Lab | | 1 | ### | ### | Humanity (H) | | 3 |
| 6 | | | | | | ### | ### | UD Elective | | 3 | BIO | ### | UD Advanced Bio Elective | | 3 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | ### | ### | UD Elective | | 3 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| | | | | | | | | | | | NAV | 194 | Naval Physical Training | | 1 |
| T | | | | | 9 | | | | | 17 | | | | | 19 |
| Year 3 | | | | | Fall | | | | | Spring | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ### | ### | UD HU or SB | | 3 | BCH | 341 | Physical Chem with Bio Focus | | 3 | BCH | 462 | General Biochemistry | | 3 |
| 2 | ### | ### | UD Elective | | 3 | BCH | 461 | General Biochemistry | | 3 | BCH | 463 | Biophysical Chemistry | | 3 |
| 3 | ### | ### | UD Elective | | 3 | CHM | 325 | Analytical Chemistry | | 3 | BCH | 467 | Analytical Biochemistry Lab | | 3 |
| 4 | | | | | | ### | ### | Science and Society | | 3 | NAV | 402 | Leadership and Ethics | | 3 |
| 5 | | | | | | ### | ### | Humanity | | 3 | ### | ### | UD Science and Society | | 3 |
| 6 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 294 | Leadership and Management | | 3 | NAV | 402 | Leadership and Ethics | | 3 |
| T | | | | | 9 | | | | | 20 | | | | | 20 |

Total

135

Enclosure (1)

| Degree Completion Plan: Chemistry B.S. | | | | | | | | | | | | | | |
|--|-----|-------------|-------|-------|--------|------|----------------------------------|-------|-------|--------|-----|-----------------------------------|-------|-------|
| Year 1 | | | | | Year 2 | | | | | Year 3 | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours |
| DEPT | # | DEPT | | | # | DEPT | # | | | | | | | |
| 1 | MAT | 270 | | 4 | CHM | 111 | Gen Chem for CHM Maj II | | 3 | MAT | 272 | Calc With Analytical Geometry III | | 4 |
| 2 | ENG | 101 | | 3 | CHM | 117 | Gen Chem for CHM Maj Lab | | 1 | PHY | 131 | University Physics II | | 3 |
| 3 | ### | ### | | 3 | MAT | 271 | Calc With Analytical Geometry II | | 4 | PHY | 132 | University Physics Lab | | 1 |
| 4 | | | | | ENG | 102 | | | 3 | CHM | 112 | Gen Chem for CHM Maj II | | 3 |
| 5 | | | | | LIA | 101 | Success in College of LA&S | | 1 | CHM | 118 | Gen Chem for CHM Maj Lab | | 1 |
| | | | | | PHY | 121 | University Physics I | | 3 | ### | ### | Science and Society | | 3 |
| | | | | | PHY | 122 | University Physics Lab | | 1 | MAT | 275 | Modern Differential Equations | | 3 |
| 6 | | | | | MAT | 242 | Elementary Linear Algebra | | | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | |
| T | | | | 10 | | | | | 18 | | | | | 20 |
| Year 2 | | | | | Year 3 | | | | | Year 4 | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours |
| DEPT | # | DEPT | | | # | DEPT | # | | | | | | | |
| 1 | CHM | 233 | | 3 | CHM | 345 | Physical Chemistry I | | 3 | CHM | 346 | Physical Chemistry II | | 3 |
| 2 | CHM | 237 | | 1 | CHM | 348 | Physical Chemistry Lab | | 1 | CHM | 349 | Physical Chemistry Lab | | 1 |
| 3 | ### | ### | | 3 | CHM | 325 | Analytical Chemistry | | 3 | CHM | 327 | Instrumental Analysis | | 3 |
| 4 | ### | ### | | 3 | CHM | 326 | Analytical Chemistry Lab | | 1 | CHM | 328 | Instrumental Analysis Lab | | 2 |
| 5 | | | | | CHM | 234 | General Organic Chemistry II | | 3 | CHM | 394 | Chemistry Special Topic | | 3 |
| 6 | | | | | CHM | 238 | General Organic Chemistry Lab | | 1 | ### | ### | Social Behavioral (H) | | 3 |
| 7 | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | | | | | | | | | |
| T | | | | 10 | | | | | 14 | | | | | 17 |
| Year 3 | | | | | Year 4 | | | | | Year 5 | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours |
| DEPT | # | DEPT | | | # | DEPT | # | | | | | | | |
| 1 | ### | ### | | 3 | CHM | 453 | Inorganic Chemistry | | 3 | CHM | 452 | Inorganic Chemistry Lab I | | 1 |
| 2 | ### | ### | | 3 | ### | ### | UD CHM or BCH Elective | | 3 | CHM | 460 | Biological Chemistry | | 3 |
| 3 | ### | ### | | 3 | ### | ### | UD Humanity or SB | | 3 | ### | ### | UD Science and Society | | 3 |
| 4 | | | | | ### | ### | Humanity | | 3 | ### | ### | UD Elective | | 3 |
| 5 | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 402 | Leadership and Ethics | | 3 |
| 6 | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | NAV | 294 | Leadership and Management | | 3 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | | | | | | | | | |
| T | | | | 9 | | | | | 17 | | | | | 15 |

Total

130

Enclosure (1)

| Degree Completion Plan: Physics B.S. | | | | | | | | | | | | | | | |
|--------------------------------------|-----|-------------|-------|-------|-------|------|----------------------------------|-------|-------|-------|-----|-----------------------------------|-------|-------|--|
| Year 1 | | Summer | | | | | | Fall | | | | Spring | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | DEPT | | | # | DEPT | | | | # | | | | | |
| 1 | MAT | 270 | | 4 | MAT | 271 | Calc With Analytical Geometry II | | 4 | MAT | 272 | Calc With Analytical Geometry III | | 4 | |
| 2 | ENG | 101 | | 3 | PHY | 150 | Physics I | | 4 | PHY | 151 | Physics II | | 4 | |
| 3 | ### | ### | | 3 | ENG | 102 | First Year Composition | | 3 | ### | ### | Science and Society | | 3 | |
| 4 | | | | | LIA | 101 | Success in College of LA&S | | 1 | ### | ### | Elective | | 3 | |
| 5 | | | | | ### | ### | Humanity (C) | | 3 | NAV | 194 | Naval Leadership Lab | | 1 | |
| 6 | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Physical Training | | 1 | |
| 7 | | | | | NAV | 194 | Naval Physical Training | | 1 | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| T | | | | 10 | | | | | 17 | | | | | 16 | |
| Year 2 | | Summer | | | | | | Fall | | | | Spring | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | DEPT | | | # | DEPT | | | | # | | | | | |
| 1 | ### | ### | | 3 | PHY | 252 | Physics III | | 4 | PHY | 302 | Math Methods Physics II | | 3 | |
| 2 | ### | ### | | 3 | PHY | 201 | Math Methods Physics I | | 3 | PHY | 310 | Classical Physics I | | 3 | |
| 3 | ### | ### | | 3 | ### | ### | UD Elective | | 3 | PHY | 314 | Quantum Physics I | | 3 | |
| 4 | | | | | ### | ### | Elective | | 3 | ### | ### | UD Humanity or SB | | 3 | |
| 5 | | | | | ### | ### | UD Science and Society | | 3 | ### | ### | Elective | | 3 | |
| 6 | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 | |
| 7 | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 | |
| 8 | | | | | | | | | | | | | | | |
| T | | | | 9 | | | | | 18 | | | | | 17 | |
| Year 3 | | Summer | | | | | | Fall | | | | Spring | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | DEPT | | | # | DEPT | | | | # | | | | | |
| 1 | ### | ### | | 3 | PHY | 311 | Classical Physics II | | 3 | PHY | 333 | Electronic Circuits/Measurement | | 3 | |
| 2 | ### | ### | | 3 | PHY | 315 | Quantum Physics II | | 3 | PHY | 412 | Classical Physics III | | 3 | |
| 3 | ### | ### | | 3 | PHY | 334 | Advanced Laboratory I | | 3 | PHY | 441 | Statistical Thermodynamics | | 3 | |
| 4 | | | | | ### | ### | UD Elective | | 3 | PHY | ### | UD Physics Elective | | 3 | |
| 5 | | | | | ### | ### | UD Elective | | 3 | NAV | 402 | Leadership an Ethics | | 3 | |
| 6 | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 | |
| 7 | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 | |
| 8 | | | | | NAV | 294 | Leadership and Management | | 3 | | | | | | |
| T | | | | 9 | | | | | 20 | | | | | 17 | |

Total

133

Enclosure (1)

Degree Completion Plan: Mathematics B.S.

| Year 1 | | | | | | | | | | | | | | | |
|--------|-----|-------------|----------------------------|-------|-------|-----|-------------|----------------------------|-------|--------|-----|-------------|------------------------------|-------|----|
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 265 | Calculus I | | 4 | MAT | 266 | Calculus II | | 3 | MAT | 267 | Calculus III | | 3 |
| 2 | ENG | 101 | First Year Composition I | | 3 | CSE | 110 | Principles of Programming | | 3 | CSE | 205 | Object Oriented Program | | 3 |
| 3 | ### | ### | Elective | | 3 | ENG | 102 | First Year Composition II | | 3 | PHY | 131 | Univ. Physics II: Elec. Mag. | | 3 |
| 4 | | | | | | PHY | 121 | Univ. Physics I: Mechanics | | 3 | PHY | 132 | Univ. Physics Lab II | | 1 |
| 5 | | | | | | PHY | 122 | Univ. Physics Lab I | | 1 | NAV | 294 | Leadership and Management | | 3 |
| 6 | | | | | | LIA | 101 | Student Success | | 1 | ### | ### | Humanity (C) | | 3 |
| 7 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 8 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| T | | | | | 10 | | | | | 16 | | | | | 18 |
| Year 2 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | MAT | 275 | Modern Diff. Equations | | 3 | MAT | 300 | Mathematical Structures | | 3 | MAT | 371 | Advanced Calculus I | | 3 |
| 2 | ### | ### | Science and Society | | 3 | MAT | 343 | Applied Linear Algebra | | 3 | ### | ### | Additional Course in Major | | 3 |
| 3 | ### | ### | Literacy (L) | | 3 | ### | ### | UD Science and Society | | 3 | ### | ### | UD Humanity or SB | | 3 |
| 4 | | | | | | ### | ### | Humanity (H) | | 3 | ### | ### | Natural Science | | 4 |
| 5 | | | | | | ### | ### | Natural Science (SQ) | | 4 | ### | ### | Social Behavior (G) | | 3 |
| 6 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | | | | | | | | | | |
| T | | | | | 9 | | | | | 18 | | | | | 18 |
| Year 3 | | | | | | | | | | | | | | | |
| Summer | | | | | Fall | | | | | Spring | | | | | |
| Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | Class | | Description | Grade | Hours | |
| DEPT | # | | | | DEPT | # | | | | DEPT | # | | | | |
| 1 | ### | ### | Additional Course in Major | | 3 | MAT | ### | UD Depth Course | | 3 | MAT | ### | UD Depth Course | | 3 |
| 2 | ### | ### | Elective | | 3 | ### | ### | UD Advanced Course | | 3 | ### | ### | UD Advanced Course | | 3 |
| 3 | ### | ### | UD Elective | | 3 | ### | ### | Social Behavioral | | 3 | NAV | 402 | Leadership and Ethics | | 3 |
| 4 | | | | | | ### | ### | UD Elective | | 3 | ### | ### | UD Elective | | 3 |
| 5 | | | | | | ### | ### | UD Elective | | 3 | ### | ### | UD Elective | | 3 |
| 6 | | | | | | NAV | 194 | Naval Leadership Lab | | 1 | NAV | 194 | Naval Leadership Lab | | 1 |
| 7 | | | | | | NAV | 194 | Naval Physical Training | | 1 | NAV | 194 | Naval Physical Training | | 1 |
| 8 | | | | | | NAV | 294 | Leadership and Management | | 3 | | | | | |
| T | | | | | 9 | | | | | 20 | | | | | 17 |

Total

135

Enclosure (1)