

**Bachelor of Science in Computer Science
Computer Engineering Track
BS Computer Science: Track CE
BS.CSC.CET
Catalog Year 2017**

MINIMUM GRADES: All Computer Science, Mathematics, Engineering, Science and English courses have a minimum grade of C.

This Curriculum Guide is official but only suggests a semester-sequential plan. Courses may be taken in any order as long as the prerequisites and other requirements are met.

| Course Number | Substitute / Course Choice | √ | First Academic Year | | |
|---------------|----------------------------|---|---|---------|--------------|
| | | | Course | Credits | Prerequisite |
| SEM 101 | | | Spartan Seminar | 1 | |
| CSC 101 | | | Introduction to the Comp Sci Profession | 1 | |
| CSC 170/170L | | | Computer Programming I and Lab | 4 | MTH 105 |
| MTH 153 | | | College Algebra and Trigonometry | 3 | |
| ENG 101 | | | Communications Skills I | 3 | |
| PED 100 | | | Fundamental of Fitness for Life | 1 | |
| CSC 260/260L | | | Computer Programming II and Lab | 4 | CSC 170 |
| SEM 102 | | | Spartan Seminar | 1 | |
| CSC 268 | | | Computer Organization | 3 | CSC 170 |
| MTH 184 | | | Calculus I | 4 | MTH 153 |
| HED 100 | | | Personal and Community Health | 2 | |
| ENG 102 | | | Communication Skills II | 3 | ENG 101 |

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| Course Number | Substitute / Course Choice | √ | Second Academic Year | | |
|---------------|----------------------------|---|--------------------------------------|---------|--------------|
| | | | Course | Credits | Prerequisite |
| SEM 201 | | | Spartan Seminar | 1 | |
| CSC 372 | | | Data Structures | 3 | CSC 260 |
| PHY 160/160L | | | University Physics I and Laboratory | 5 | (co) MTH 184 |
| MTH 251 | | | Calculus II | 4 | MTH 184 |
| → | | | Social Science ¹ | 3 | |
| PHY 161/161L | | | University Physics II and Laboratory | 5 | PHY 160/160L |
| MTH 252 | | | Calculus III | 4 | MTH 251 |
| CSC 295 | | | Java Application Programming | 3 | CSC 260 |
| SCM 285 | | | Principles of Speech | 3 | ENG 102 |

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¹ HIS 101; HIS 103; BUS 175; ECN 200; SOC 101

| Course Number | Substitute / Course Choice | √ | Third Academic Year | | |
|---------------|----------------------------|---|--|---------|--------------|
| | | | Course | Credits | Prerequisite |
| EEE 201/201L | | | Elect Network Theory & Lab | 4 | PHY 161 |
| MTH 351 | | | Probability and Statistics I | 3 | MTH 251 |
| MTH 371 | | | Discrete Mathematical Structures | 4 | MTH 184 |
| CSC 292 | | | UNIX and C Programming | 3 | CSC 260 |
| CSC 361 | | | Survey of Programming Languages | 3 | CSC 260 |
| MTH 372 | | | Differential Equations | 3 | MTH 251 |
| EEE 231/L | | | Digital Electronics Logic Design and Lab | 4 | EEN 201 |
| CSC 380 | | | Software Engineering | 3 | CSC 260 |
| ENG 303 | | | Technical Writing | 3 | ENG 102 |
| EEE 203 | | | Electronic Principles | 3 | |

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| Course Number | Substitute / Course Choice | √ | Fourth Academic Year | | |
|---------------|----------------------------|---|--|---------|--------------|
| | | | Course | Credits | Prerequisite |
| EEE 431 | | | Microcontrollers | 3 | |
| → | | | Laboratory Science ² | 4 | |
| → | | | Humanities ³ | 3 | |
| CSC 468 | | | Computer Architecture | 3 | CSC 268 |
| CSC 498 | | | Senior Seminar I | 1 | CSC 380 |
| → | | | Social Science Cultural Electives ⁴ | 3 | |
| → | | | Humanities Cultural Elective ⁵ | 3 | |
| → | | | Computer Science Elective 300 level or above | 3 | |
| CSC 430 | | | Data Communication | 3 | CSC 372 |
| CSC 464 | | | Operating Systems | 3 | CSC 372 |
| CSC 499 | | | Senior Seminar II | 2 | CSC 498 |

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2 CHM 221/221L or BIO 110/110L

3 ENG 207, FIA 201; MUS 301

4 HIS 335; HIS 336; HIS 371; HRP 320

5 ENG 383; FIA 370; MUS 234

125 Credits Total