

CAMPUS LOCATION: Stanton COURSE SEQUENCE SHEET

Curriculum: Electronics Engineering Technology – Instrumentation Option Curriculum Code Designation: **EENAASINR**

Effective: 2023-52

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name: |  |  | [ ] No developmental education requirements |

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| [ ] ENG 011 |
|  |
|  |

 | [ ] MAT 052[ ] MAT 062[ ] MAT 099 |
| ID#: |  |  |  |  |
|  |  |  |  |  |
| Matriculation Date: |  |  |  |  |

**SSC 100 is a pre-requisite for all developmental and 100-level courses.**

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|  |  |  |  | SEMESTER |  |  |  |  |
| **COURSE NUMBER AND TITLE** | **Credits** | **Lecture** | **Lab** | **Offered** | **Completed** | **Grade** | PREREQUISITES | **CO-REQUISITES** |

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| **FIRST SEMESTER (FALL)** |
| SSC 100 First Year Seminar | 1 | 1 | 0 |  |  |  | None |  |
| CEN 100 Intro to Electronics & Computer Eng Tech | 3 | 2 | 2 | Fall |       |  | SSC 100 or concurrent, ((MAT 099 or concurrent) or (MAT 183 or concurrent) or (MAT 193 or concurrent) or (MAT 281 or concurrent)) |       |
| ELC 127 Digital Electronics  | 4 | 3 | 3 | Fall |       |  | CEN 100 or concurrent |       |
| MAT 183 Reasoning with Functions I | 5 | 5 | 0 | Fall |       |  | Test score or MAT 099  |       |
| Social Science/Humanities Elective | 3 | 3 | 0 | Fall |       |  | As Required |       |
| TOTAL | 16 | 14 | 5 |

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| **SECOND SEMESTER (SPRING)** |
| ENG 101 Composition I | 3 | 3 | 0 | Spring |       |  | Test scores or ENG 011 or concurrent |       |
| ELC 125 Electrical Circuits I | 4 | 3 | 3 | Spring |       |  | MAT 183 or concurrent |       |
| ELC 126 Analog Electronics I | 3 | 2 | 2 | Spring |       |  | ELC 125 or concurrent, MAT 183 or concurrent |       |
| CEN 180 C/C++ Language Introduction  | 4 | 3 | 2 | Spring |       |  | ELC 125 or concurrent |       |
| MAT 193 Reasoning with Functions II | 4 | 4 | 0 | Spring |       |  | MAT 183 |       |
| TOTAL | 18 | 15 | 7 |

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| **THIRD SEMESTER (FALL)** |
| ELC 101 Introduction to Instrumentation  | 3 | 2 | 2 | Fall |       |  | SSC 100 or concurrent |  |
| ENG 102 Composition and Research | 3 | 3 | 0 | Fall |       |  | ENG 101 |  |
| PHY 205 General Physics I | 4 | 3 | 3 | Fall |       |  | MAT 183 |  |
| ELC 225 Electrical Circuits II | 4 | 3 | 3 | Fall |       |  | ELC 125, MAT 190 or MAT 193 or concurrent |       |
| ELC 227 Microcontroller Fundamentals | 3 | 2 | 3 | Fall |       |  | ELC 125, ELC 127, CEN 180 |       |
| TOTAL | 17 | 13 | 11 |

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| **FOURTH SEMESTER (SPRING)** |
| ELC 228 Microcontroller Applications  | 4 | 3 | 4 | Spring |       |  | ELC 227 |       |
| ELC 243 Programmable Logic Controllers | 4 | 3 | 3 | Spring |       |  | ELC 125, ELC 127, CEN 180 |       |
| ELC 270 Process Instrumentation I | 4 | 3 | 2 | Spring |       |  | ELC 101, (PHY 111 or PHY 205 or PHY 281) |       |
| Social Science/Humanities Elective | 3 | 3 | 0 | Spring |       |  | As Required |       |
| TOTAL | 15 | 12 | 9 |
| GRAND TOTAL | 66 | 54 | 32 |

**Select two (2) Social Science electives from this list of eight (9) approved electives. These electives may be taken at any time (after satisfying test scores and/or prerequisites \*):**
ECO 111 Macroeconomics

ECO 122 Microeconomics

PHL 103 Introduction to Ethics

PHL 104 Introduction to Philosophy

POL 111 Political Science

PSY 100 Human Relations

PSY 121 General Psychology

SOC 111 Sociology I

COM 111 Human Communications