



# Ana G. Mendez University Florida

## Associate in Science in Computer Technology and Networks 62 credits

In this program the student develops the theoretical knowledge and practical skills necessary to succeed in the changing world of technology. Graduates will be prepared to work on data analysis, installation and estimation and maintenance of new or existing computer systems and networks. The curriculum also provides the ability to solve technical problems, develop human relationships and establish effective communication in English and Spanish. The graduate may work in industrial areas, service companies or in their own business.

| General Education Courses   |  |           |   |
|-----------------------------|--|-----------|---|
| Course                      | Title  | Credits   | Prerequisites   |
| ENGL 151 OR<br>ENGL 115     | English Composition I OR<br>English Reading and Writing I  | 4         |   |
| HUMA 101                    | World Cultures I   | 3         |   |
| MATH 111                    | Intermediate Algebra I   | 3         |   |
| MATH 112                    | Intermediate Algebra II  | 3         | MATH 111  |
| Pick 1 GE* OR<br>SPAN 115   | Pick one (1) of the Approved General Education<br>Electives OR<br>Reading, Writing and Oral Communication in Spanish I | 4         |   |
| <b>TOTAL</b>                |  | <b>17</b> |   |
| Core / Professional Courses |  |           |   |
| Course                      | Title  | Credits   | Prerequisites   |
| ENGL 251 OR<br>ENGL 116     | English Composition II OR<br>English Reading and Writing II  | 4         | ENGL 151 for ENGL 251<br>ENGL 115 for ENGL 116                |
| COMM 141 OR<br>ENGL 331     | Effective Communication OR<br>Public Speaking  | 4         | ENGL 116 for ENGL 331   |
| FSEN 100                    | Introduction to Engineering Technology   | 3         | MATH 111, MATH 112  |
| MATH 151                    | Pre-Calculus I   | 4         | MATH 112,<br>Concurrent with ENGI 122                         |
| MATH 152                    | Pre-Calculus II  | 4         | MATH 151  |
| ENGI 122                    | Introduction to Computer Programming   | 3         | FSEN 100,<br>Concurrent with MATH 151                         |
| <b>TOTAL</b>                |  | <b>22</b> |   |
| Major Courses               |  |           |   |
| Course                      | Title  | Credits   | Prerequisites   |
| CTEC 220                    | Fundamentals of Computers, Peripherals and<br>Operating Systems  | 3         | Concurrent with CTEC 220L                                     |
| CTEC 220L                   | Fundamentals of Computers, Peripherals and<br>Operating Systems Laboratory   | 1         | Concurrent with CTEC 220                                      |
| EETE 223                    | Fundamentals of Computer Electronic  | 3         | ENGI 122, MATH 152,<br>Concurrent with EETE 223L              |
| EETE 223L                   | Fundamentals of Computer Electronic Laboratory   | 1         | ENGI 122, MATH 152,<br>Concurrent with EETE 223               |
| TCOM 335                    | Principles of Telecommunications and Networking  | 3         | EETE 223, CTEC 220,<br>CTEC 220L<br>Concurrent with TCOM 335L |
| TCOM 335L                   | Principles of Telecommunications and Networking<br>Laboratory  | 1         | EETE 223, CTEC 220,<br>CTEC 220L,<br>Concurrent with TCOM 335 |



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|-------------------------|---|----------------|---|
| TCOM 350                | Fundamentals of Networking Infrastructure Management            | 3              | CTEC 220, CTEC 220L, TCOM 335, TCOM 335L, Concurrent with TCOM 350L |
| TCOM 350L               | Fundamentals of Networking Infrastructure Management Laboratory | 1              | CTEC 220, CTEC 220L, TCOM 335, TCOM 335L, Concurrent with TCOM 350  |
| CTEC 230                | Fundamentals of Intermediate Programming                        | 3              | MATH 152, ENGI 122, TCOM 335, TCOM 335L, TCOM 350, TCOM 350L        |
| <b>TOTAL</b>            |   | <b>19</b>      |   |
| <b>Elective Courses</b> |   |                |   |
| <b>Course</b>           | <b>Title</b>  | <b>Credits</b> | <b>Prerequisite</b>   |
| MATH 221                | Calculus I  | 4              | MATH 152  |
| EETE 255                | Fundamentals of Microprocessors                                 | 4              | EETE 223, EETE 223L   |
| <b>TOTAL</b>            |   | <b>4</b>       |   |
| <b>TOTAL CREDITS</b>    |   | <b>62</b>      |   |

|  |  |                |                      |
|--|--|----------------|----------------------|
| <b>Approved General Education Electives*</b> |  |                |                      |
| <b>Course</b>                                | <b>Title</b>                                   | <b>Credits</b> | <b>Prerequisites</b> |
| SPAN 111                                     | Elementary Spanish                             | 4              |                      |
| REIL 102                                     | Research and Information Literacy              | 4              |                      |
| BIOL 153                                     | General Biology I                              | 4              |                      |
| BIOL 154                                     | General Biology II                             | 4              | BIOL 153             |
| COMM 206                                     | Communication Theory                           | 4              |                      |
| COMM 211                                     | Legal and Ethical Aspects of Communications    | 4              | COMM 206             |
| HIDE 101                                     | History of Arts                                | 4              |                      |
| HIDE 111                                     | Representing Culture: Art & Artifact 1500-1850 | 4              | HIDE 101             |
| HIST 274                                     | History of the United States of America        | 4              |                      |

**Notes:**

1. \*Approved General Education Elective courses can be found on page 2.
2. This program may be offered in English, Bilingual mode (English-Spanish), or Spanish according to demand. COMPLETING A COURSE OR PROGRAM IN A LANGUAGE OTHER THAN ENGLISH MAY REDUCE EMPLOYABILITY WHERE ENGLISH IS REQUIRED.
3. If enrolling in a bilingual program, please refer to AGMU US Placement Protocol.
4. Students must abide with the minimum required hours and policies set by the state and local education agencies for practicum experiences.
5. Students must comply with state and local education certification requirements for the degree program, as applicable.