

## Computer Technology Associate in Applied Science

The Associate in Applied Science Computer Technology degree program prepares students for entry-level computer technology positions. Emphasis throughout the program's duration is placed on effective computer and communication skills.

The **Programming Concentration** trains students to design and develop web applications using object-oriented languages and databases, including Python, Microsoft C#, SQL, ASP.NET, Java, HTML5, CSS, JavaScript and PHP.

Listed below is the ideal grouping of courses in order by semester. This plan assumes a full-time schedule. Note, however, that many variables can affect this plan, and not every course is offered every semester. Please see your advisor to map out your own personalized progression toward graduation.

**Note:** Please contact your advisor for recommended evening schedules.

### Programming Concentration Recommended Program Schedule

| FIRST SEMESTER                   |                                            | HOURS     |
|----------------------------------|--------------------------------------------|-----------|
| <b>COL 111</b>                   | E-Learning Success                         | 1         |
| <b>COL 105</b>                   | Freshman Seminar                           | 3         |
| <b>CPT 113</b>                   | Information Systems                        | 3         |
| <b>ENG 101</b>                   | English Composition I                      | 3         |
| Select one of the following:     |                                            | 3         |
| <b>MAT 120</b>                   | Probability and Statistics                 |           |
| <b>MAT 103</b>                   | Quantitative Reasoning                     |           |
| <b>MAT 109</b>                   | College Algebra With Modeling <sup>1</sup> |           |
| Higher college transferable math |                                            |           |
| <b>Total Semester Hours</b>      |                                            | <b>13</b> |
| SECOND SEMESTER                  |                                            |           |
| <b>CPT 257</b>                   | Operating Systems                          | 3         |
| <b>CPT 127</b>                   | Python Programming I                       | 3         |
| <b>CPT 170</b>                   | Computer Applications I                    | 3         |
| <b>IST 272</b>                   | Relational Database                        | 3         |
| <b>Total Semester Hours</b>      |                                            | <b>12</b> |
| THIRD SEMESTER                   |                                            |           |
| <b>CPT 230</b>                   | C# Programming I                           | 3         |
| <b>IST 226</b>                   | Internet Programming                       | 3         |
| <b>CPT 209</b>                   | Computer Systems Management                | 3         |
| <b>Total Semester Hours</b>      |                                            | <b>9</b>  |

| FOURTH SEMESTER                   |                                    |           |
|-----------------------------------|------------------------------------|-----------|
| <b>CPT 236</b>                    | Java Programming I                 | 3         |
| <b>CPT 231</b>                    | C# Programming II                  | 3         |
| <b>IST 239</b>                    | Javascript                         | 3         |
| Select one of the following:      |                                    | 3         |
| <b>SPC 205</b>                    | Public Speaking                    |           |
| <b>SPC 208</b>                    | Intercultural Communication        |           |
| <b>SPC 209</b>                    | Interpersonal Communication        |           |
|                                   | <b>Total Semester Hours</b>        | <b>12</b> |
| FIFTH SEMESTER                    |                                    |           |
| <b>CPT 237</b>                    | Java Programming II                | 3         |
| <b>CPT 267</b>                    | Technical Support Concepts         | 3         |
| <b>IST 278</b>                    | Database Programming               | 3         |
| Programming Elective <sup>2</sup> |                                    | 3         |
|                                   | <b>Total Semester Hours</b>        | <b>12</b> |
| SIXTH SEMESTER                    |                                    |           |
| <b>CPT 264</b>                    | Systems & Procedures               | 3         |
| Social Science Elective           |                                    | 3         |
| Humanities Elective               |                                    | 3         |
|                                   | <b>Total Semester Hours</b>        | <b>9</b>  |
|                                   | <b>Total Required Credit Hours</b> | <b>67</b> |

<sup>1</sup> Preferred Course - **MAT 109** College Algebra With Modeling

<sup>2</sup> Programming Electives:

- **CPT 227** Python Programming II
- **CPT 189** Data Science I
- **CPT 270** Computer Applications II
- **CPT 283** PHP Programming I