



**Associate of Science in Computer Science to  
Bachelor of Science in Computer Science  
With an Artificial Intelligence and Data Science Concentration <sup>T</sup>  
Guided Pathway  
Effective for the 2021-2022 Catalog**



**First Year – Tyler Junior College**

| FIRST SEMESTER                                 | SECOND SEMESTER                                  |
|--|--|
| COSC 1436 Programming Fundamentals             | COSC 2325 Computer Organization                  |
| <sup>C</sup> ENGL 1301 Composition I           | MATH 2414 Calculus II                            |
| <sup>C</sup> MATH 2413 Calculus I              | <sup>C</sup> PHYS 2425 University Physics I      |
| <sup>C</sup> HIST 1301 United States History I | <sup>C</sup> HIST 1302 United States History II* |
| Total Semester Hours: 14                       | Total Semester Hours: 14                         |

**Second Year – Tyler Junior College**

It's best to apply to Tarleton State University a full semester before you plan to transfer.

| FIRST SEMESTER   | SECOND SEMESTER   |
|--|---|
| COSC 1437 Programming Fundamentals II                      | COSC 2436 Programming Fundamentals III  |
| <sup>C</sup> GOVT 2305 Federal Government                  | <sup>C</sup> GOVT 2306 Texas Government   |
| <sup>C</sup> PHYS 2426 University Physics II               | <sup>C</sup> xxxx x3xx Language, Philosophy & Culture Core                      |
| MATH 2305 Discrete Mathematics                             | <sup>C</sup> SPCH 1315 Public Speaking*   |
| <sup>C</sup> xxxx x3xx Social and Behavioral Sciences Core | Xxxx x2xx Elective (TSU requires <sup>C</sup> Any Core Elective (1 credit min)) |
| Total Semester Hours: 17                                   | Total Semester Hours: 15  |

**AS: Computer Science**

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

**These courses may be completed at TJC (if offered) or TSU**

|  |  |
|--|--|
| <sup>C</sup> ENGL 1302 Composition II      | <sup>C</sup> Creative Arts Core Elective         |
| COSC 1302 Introduction to Computer Science | MATH 1342 Elementary Statistical Methods         |
| COSC 2331 Java Programming                 | COSC 2321 C++ Programming                        |
|  | COSC 2448 Introduction to Digital Systems Design |
| Total Semester Hours: 9                    | Total Semester Hours: 13                         |

**Third Year – Tarleton State University**

| FIRST SEMESTER           | SECOND SEMESTER          |
|--------------------------|--------------------------|
| Tarleton Course          | Tarleton Course          |
| Tarleton Course          | Tarleton Course          |
| Tarleton Course          | Tarleton Course          |
| Tarleton Course          | Tarleton Course          |
| Total Semester Hours: 12 | Total Semester Hours: 12 |

**Fourth Year – Tarleton State University**

| FIRST SEMESTER           | SECOND SEMESTER         |
|--------------------------|-------------------------|
| Tarleton Course          | Tarleton Course         |
| Tarleton Course          | Tarleton Course         |
| Tarleton Course          | Tarleton Course         |
| Tarleton Course          |                         |
| Total Semester Hours: 12 | Total Semester Hours: 7 |

Total Degree Hours: 125

**This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.**

Part-time students may also follow this sequence. Developmental coursework may be required.

\* You may take a different course to meet this requirement. A specific list is available from your advisor.

<sup>C</sup> This course counts for the Core Curriculum at any public college or university in Texas.

() Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

<sup>T</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.