**Associates Degrees for Biology Students at TCC – Comparison of Requirements**

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| **Degree requirements** | **Associate of Science – Biology Specialization** | **Associate in Biology (DTA)** |
| **Basic requirements** |
| Written communication skills | * ENGL&101 – English Composition I
 | * ENGL&101 – English Composition I

One of the following:* ENGL&102 – Composition II: Argument and Persuasion
* ENGL 103 – Composition III: Writing about Literature
* ENGL&235 – Technical Writing
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| Quantitative skills | * MATH&151 – Calculus I
* MATH&152 – Calculus II

AND Either* MATH&153 – Calculus III
* MATH&146 – Introduction to Statistics
 | One of the following two courses:* MATH&151 – Calculus I
* MATH&146 – Introduction to Statistics
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| **Humanities and Social Sciences** |
| Must be selected from the Approved Distribution Course List.At least one course must be an approved Multicultural course. | * 5 Humanities credits
* 5 Social Sciences credits
* 5 additional credits from either Social Sciences or Humanities
 | * 15 Humanities credits
* 15 Social Sciences credits
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| **Natural Sciences** |
| Biology | * BIOL&221, BIOL&222, BIOL&223

Note: BIOL&160 is a required pre-req for BIOL&221 | * BIOL&221, BIOL&222, BIOL&223

Note: BIOL&160 is a required pre-req for BIOL&221 |
| Chemistry | * CHEM&161, CHEM&162, CHEM&163
* CHEM&261, CHEM&262, CHEM&263
 | * CHEM&161, CHEM&162, CHEM&163
 |
| **Electives** |
| College-Level Electives | * Minimum of 10 credits of additional electives to reach a total of 90 credits, selected in consultation with a biology advisor.
* PHYS&114,115 or PHYS&221, 222 are strongly recommended.
 | * Remaining college level courses to reach a total of 90 credits, selected in consultation with a biology advisor
* CHEM&261, 262, 263, and MATH&146 are strongly recommended as electives
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| Why does TCC have these two associate’s degrees for biology majors? | Biology is a very diverse field of study reflected by the courses required for BS or BA degrees. We offer these associate degrees to accommodate this diversity. The Associate in Biology degree includes all the general education distribution requirements typically required by 4 year universities and prepares students for many biology major areas. The Associate of Science - Biology Specialization requires more math and chemistry and so does not fulfill all of the general education distribution courses usually required for a bachelor’s degree. Students will complete those after transferring to a four year institution. But, for many students the Associate of Science better prepares them for the junior level coursework required for their major |