# Academic Rhode Map for BS Technology Education Major at Rhode Island College with Concentration in Applied Technology

- This Rhode Map is a suggested pathway to graduation in 8 semesters
  - There are other valid pathways available to graduation - part time, summer/early spring classes, etc.
- The left column contains the suggested courses for each semester, the right column contains notes for the course and about progress towards graduation
- Some courses might not be offered during the semester shown on the map
  - In these cases, courses listed in future semesters can be substituted if their prerequisites have been satisfied
  - Your advisor can help you determine which courses can be used during your appointment each semester
- This Rhode Map is designed primarily with incoming freshmen in mind and assumes a Fall start
  - Transfer students can also use it as a guide, knowing that their transfer credits may have satisfied some requirements. Academic advisors are available to answer questions about how these will affect the program
  - Students starting in the spring may need to adjust based on class offerings and availability

## GENERAL EDUCATION REQUIREMENTS CHECKLIST

| | | | |
|---|---|---|---|
| **FYW 100 –** Taken in first year (Cannot be used as elective) | **Distribution Courses -** One from each category | **Math (M) -** suggested in first year<br>- Satisfied by MATH 209 | |
| | | **Arts (A)** | |
| **FYS 100 –** Taken in first year (Cannot be used as elective) | | **History/Philosophy (HP)** | |
| | | **Literature/Language (LL)** | |
| | | **Natural Science (NS)**<br>- Satisfied by PHYS101 | |
| **Connections –** Taken after FYW & FYS | | **Social & Behavioral Sciences (SB)** | |
| | | **Elective(s) for 40 total Gen Ed credits (E)** | |

## COGNATES

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|---|
| CSCI 157 Introduction to Algorithmic Thinking and Python |
| CSCI 211 Computer Programming and Design |
| MGT 201W Foundations of Management |
| MGT 331 Occupational and Environmental Safety Management (F) |
| MATH 209 Precalculus Mathematics |
| MATH 212 Calculus I |
| PHYS 101 Physics for Science and Mathematics I |
| PHYS 102 Physics for Science and Mathematics II |

## ACADEMIC MAJOR CHECKLIST

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|---|
| TECH 200 Introduction to Technology Systems |
| TECH 202W Design Processes (Sp) |
| TECH 204 Energy and Control Systems |
| TECH 216 Computer Aided Design |
| TECH 306 Automation and Control Systems (F) |
| TECH 326 Communication Systems |
| TECH 327 Construction Systems |
| TECH 328 Manufacturing Systems |
| TECH 329 Transportation Systems |
| TECH 430 Internship in Applied Technology |
| TECH 431W Capstone Design Project |

**Graduation Requirements:**
- Completion of General Education Requirements – See table above
- Completion of Major Requirements — See table above
- RIC 100 or Equivalent — Taken in first year
- College Math Milestone — Satisfied by placement exam or completion of MATH 010
- College Writing Competency — Satisfied by FYW 100 with a minimum grade of C
- Minimum 120 Credit Hours — At least 30 credits at RIC (of which 15 from major, including 12 at 300 or 400 level)
- Minimum GPA -  2.0 overall

**The total credit count for the major is 70 credits, and 40 credits for General Education. However, 12 Gen. Ed. credits for M, NS, and Elective can double count, so the program can be completed in 98 credits.**

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## at Rhode Island College with Concentration in Applied Technology

| SEMESTER 1 | CR | | SEMESTER 1 NOTES |
|---|---|---|---|
| FYW 100 First Year Writing | 4 | | FYW Directed Self Placement exam |
| RIC 100 Introduction to Rhode Island College | 1 | | Exempt if taking COLL 101, COLL 150, or HONR 150 |
| General Education Course (Any other than M, SB, or NS) | 4 | | Gen Ed (M) satisfied by MATH 209 <br> Gen Ed (NS) satisfied by PHYS 101 |
| TECH 200 Introduction to Technology Systems | 3 | | Minimum grade of B- |
| MATH 209 Precalculus Mathematics (M) | 4 | | Prereq = MATH 120 or appropriate score on Mathematics Placement Exam <br> Satisfies Gen Ed Math (M) |
| **Requirements and GPA** | | | *Aim for 16 earned credits (While 12 is fulltime, 16 credits are preferred to stay on track to graduate in 4 years). Math Milestone completed. Minimum 2.50 overall GPA* |
| **# CREDITS EARNED** | 16 | | *By October, make appointment with **Technology Education advisor** to discuss your schedule for next semester* |

| SEMESTER 2 | CR | | SEMESTER 2 NOTES |
|---|---|---|---|
| FYS 100 First Year Seminar | 4 | | |
| General Education Course (Any still needed) | 3-4 | | |
| TECH 202W Design Processes (Sp) | 3 | | Minimum grade of B- |
| MATH 212 Calculus I | 4 | | Prereq = MATH 209 |
| **Requirements and GPA** | | | *Aim for minimum of 32 earned credits with minimum 2.50 overall GPA* |
| **# CREDITS EARNED** | 14 -15 | | *By March, make appointments with Tech Ed advisor to discuss your schedule for next semester* |

| SEMESTER 3 | CR | | SEMESTER 3 NOTES |
|---|---|---|---|
| TECH 204 Energy and Control Systems | 3 | | Minimum grade of B- |
| TECH 216 Computer Aided Design | 3 | | Minimum grade of B- |
| CSCI 157 Introduction to Algorithmic Thinking and Python | 4 | | Prereq = Math Milestone; CSCI 157 completed |
| General Education Course (Any still needed) | 3-4 | | |
| General Education Course (Any still needed) | 3-4 | | |
| **Requirements and GPA** | | | *Aim for minimum of 45 earned credits, with minimum 2.50 overall GPA and 2.75 in Tech Ed major courses* |
| **# CREDITS EARNED** | 16 -18 | | *By October, make appointments with Tech Ed advisor to discuss your schedule for next semester* |

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| SEMESTER 4 | CR | | SEMESTER 4 NOTES |
|---|---|---|---|
| PHYS 101 Physics for Science and Mathematics I | 4 | | Prereq = MATH 120 or appropriate score on Mathematics Placement Exam<br>Satisfies Gen Ed-Natural Science (NS) |
| TECH 326 Communication Systems | 3 | | Prereq = TECH 200 or TECH 202 or TECH 202W |
| General Education Course (Any still needed) | 4 | | |
| Elective | 3-4 | | |
| **Requirements and GPA** | | | *Aim for minimum of 60 earned credits, with minimum 2.50 overall GPA and 2.75 in Tech Ed major courses* |
| **# CREDITS EARNED** | 17-18 | | *By March, make appointment with advisor to discuss your schedule for next semester* |

| SEMESTER 5 | CR | | SEMESTER 5 NOTES |
|---|---|---|---|
| TECH 327 Construction Systems **OR** TECH 328 Manufacturing Systems | 3 | | Prereq = TECH 200 or TECH 202 or TECH 202W<br>Minimum grade of B- |
| PHYS 102 Physics for Science and Mathematics II | 4 | | Prereq = PHYS 101 |
| MGT 201W Foundations of Management | 4 | | Prereq = 45 completed credits |
| CSCI 211 Computer Programming and Design | 3 | | Prereq = CSCI 157 |
| **Requirements and GPA** | | | *Aim for minimum of 75 earned credits, with minimum 2.50 overall GPA and 2.75 in Tech Ed major courses* |
| **# CREDITS EARNED** | 14 | | *By October, make appointment with advisor to discuss your schedule for next semester* |

| SEMESTER 6 | CR | | SEMESTER 6 NOTES |
|---|---|---|---|
| Gen Ed - Connections | 4 | | Prereqs = FYW and FYS |
| General Education Course (Any still needed) | 4 | | |
| TECH 327 Construction Systems **OR** TECH 328 Manufacturing Systems | 3 | | Prereq = TECH 200 or TECH 202 or TECH 202W<br>Minimum grade of B- |
| Elective | 3-4 | | May need to take more to reach 120 credits |
| **Requirements and GPA** | | | *Aim for minimum of 90 earned credits, with minimum 2.50 overall GPA and 2.75 in Tech Ed major courses. Need to finalize internship placements. Apply for degree audit online through MyRIC* |
| **# CREDITS EARNED** | 14-15 | | *By March, make appointment with advisor to discuss your schedule for next semester* |

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| SEMESTER 7 | CR | | SEMESTER 7 NOTES |
|---|---|---|---|
| MGT 331 Occupational and Environmental Safety Management (F) | 4 | | Prereq = MGT 201 or MGT 201W |
| TECH 306 Automation and Control Systems (F) | 4 | | Prereq = TECH 200 or TECH 202 or TECH 202W; satisfies the General Education elective (E) |
| TECH 329 Transportation Systems | 3 | | Prereq = TECH 200 or TECH 202 or TECH 202W |
| TECH 430 Internship in Applied Technology | 6 | | Prereq = Senior standing and all content courses complete, with 27 credits in content area with a minimum GPA of 2.75 |
| **Requirements and GPA** | | | *Aim for minimum of 105 earned credits, with minimum 2.50 overall GPA and 2.75 in Tech Ed major courses* |
| **# CREDITS EARNED** | 17 | | *By October, make appointment with advisor to discuss your schedule for next semester* |

| SEMESTER 8 | CR | | SEMESTER 8 NOTES |
|---|---|---|---|
| TECH 431W Capstone Design Project | 4 | | Prereq = Senior standing and all content courses complete, with 27 credits in content area with a minimum GPA of 2.75 |
| 2 Electives | 8 | | May need to take more to reach 120 credits |
| **Requirements and GPA** | | | *Need minimum of 120 earned credits, with minimum 2.50 overall GPA and 2.75 in Tech Ed major* |
| **# CREDITS EARNED** | 12 | | *Attend Grad-fest and Commencement* |

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| Approved by Program Director: Charles H. McLaughlin, Jr. | Date: 12/6/2024 |
| Approved by Undergraduate Curriculum Committee | Date: 11/14/2024 |
| Revised: | |