## ABOUT THE MATHEMATICS BS DEGREE:

The BS program in Mathematics includes core courses along with higher level courses in several areas that allow you to explore the fascinating world of mathematics. Many companies in industry and the service sector are interested in graduates who have a degree in Mathematics. While some students complete a Bachelor's Degree and from there, get a job, others continue on to graduate school.

## STEP 1:

## Major Requirements:

| Course | Semester | Credits | Grade |
| :---: | :---: | :---: | :---: |
| MTH 141 |  | 4 |  |
| MTH 142 |  | 4 |  |
| MTH 215 |  | 3 |  |
| MTH 243 |  | 3 |  |
| Twelve (12) credits of MTH, at least 3 credits of which must be at the 400 -level |  |  |  |
| MTH |  | 3 |  |
| MTH |  | 3 |  |
| MTH |  | 3 |  |
| MTH 4_ |  | 3 |  |
| Choose one of the following sequences: MTH435/436 or MTH 437/438 |  |  |  |
| MTH 4__ |  | 3-4 |  |
| MTH 4__ |  | 3-4 |  |

Nine (9) credits chosen from Group I:
BME 207; BUS 320, 321, 335, 337; CHE 272, 313, 314; CHM 431, 432: CSC 340, 350, 406, 418, 440, 445; ECN 323, 324, 327, 328, 375; ELE 313, 314, 322, 438, 457; ISE 411, 412, 432, 433; MCE 341, 354, 366, 372, 411, 466; NRS 409, 410; OCE 301; PHY 306, 322, 331, 410, 420, 451, 452, 455; STA 307, 308, 409, 411, 412

Students may receive credit for STA 307 or STA 308 or STA 409—not all three.

\left.| STA 307 or STA 308 or STA 409-not all three. |  |  |
| :--- | :---: | :---: |
|  |  | 3 |
|  |  |  |
|  |  | 3 |$\right)$

One course chosen from: CSC 106*, 200, 201*, 211, 212; PHY 410; CHE 272 3-4

Free elective credits
(to meet the $\mathbf{1 2 0}$ credits required for graduation):

| Course | Credits | Course | Credits |
| :---: | :---: | :---: | :---: |
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MTH 101, 103, 104, 105, 106, 107, 108, 109, 110, $111,208,209,362$, and 420 may not be used toward this degree.
*Course approved for general education credit

GENERAL EDUCATION GUIDELINES: General education is 40 credits. Each of the twelve outcomes (A1-D1) must be met by at least 3 credits. A single course may meet more than one outcome, but cannot be double counted towards the 40 credit total. At least one course must be a Grand Challenge (G). No more than twelve credits can have the same course code (note- HPR courses may have more than 12 credits). General education courses may also be used to meet requirements of the major or minor when appropriate.

## STEP 2:

| General Education Credit Count |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| At least 40 credits, no more than 12 credits with |  |  |  |
| the same course code. |  |  |  |

STEP 3:

| General Education Outcome Audit |  |
| :--- | :--- |
| Course |  |
| KNOWLEDGE |  |
| A1. STEM |  |
| A2. Social \& Behavioral Sciences |  |
| A3. Humanities |  |
| A4. Arts \& Design |  |
| COMPETENCIES |  |
| B1. Write effectively |  |
| B2. Communicate effectively |  |
| B3. Mathematical, statistical, <br> or computational strategies |  |
| B4. Information literacy |  |
| RESPONSIBILITIES |  |
|  <br> responsibilities |  |
| C2. Global responsibilities |  |
| C3. Diversity and Inclusion |  |
| INTEGRATE \& APPLY |  |
| D1. Ability to synthesize |  |
| GRAND CHALLENGE |  |
| G. Check that at least one course of <br> your 40 credits is an approved <br> "G" course |  |

## SEE OPPOSITE SIDE FOR PROGRAM REQUIREMENTS.

NOTE: This worksheet is a snapshot of your entire curriculum. You must work with your advisor each term to discuss requirements to keep you on course for timely progress to complete this major. Official requirements for graduation are listed in the University Catalog.

## B.S Mathematics Applied Option (2019-2020 Catalog)

Requirements by Type<br>please see reverse for requirements by year

For course titles and pre-requisite information, please visit: uri.edu/catalog

| Fall | Spring | Milestones |
| :--- | :--- | :--- |
|  |  |  |
| MTH 141 (Gen Ed) | MTH 142 | Overall GPA 2.00 |
| Gen Ed | Gen Ed | Complete URI 101 |
| Gen Ed | Gen Ed | Complete 30cr (or consider summer/J- <br> term courses) |
| Gen Ed | Gen Ed | Complete MTH 141 with a C- or better |
| Gen Ed | Gen Ed | Meet with Advisor for credit check |
| URI 101 |  |  <br> Sciences (Complete 24 credits and <br> overall GPA 2.00 |
| $(17$ cr total) | $(16-17$ cr total) |  |


| Year Two |  |  |
| :--- | :--- | :--- |
| MTH 215 | MTH 243 | Overall GPA 2.00 |
| Gen Ed | Group 1 Applications | Consider Minor area of study |
| Gen Ed | Gen Ed | Complete 60cr |
| Gen Ed | CSC, PHY, or CHE course | Complete MTH 141,142, 215 and 243 |
| Elective | Elective | Complete CSC, PHY, or CHE course. <br> Declare Subplan |
| $15-16$ cr total) | (15-16 cr total) | Meet with advisor <br> Consider second major |
|  | Year Three |  |
| Group 1 Applications | Group 1 Applications | Declare and complete minor area of <br> study (optional) |
| MTH Elective | MTH Elective | Declare second major (optional) |
| MTH Elective | Elective | Complete 90cr |
| Elective | Elective | Complete 9 credits of Group 1 <br> Applications |
| Elective | Elective | Meet with advisor |
| $(15$ cr total) | (15 cr total) |  |
|  |  |  |


| Year Four |  | Overall GPA 2.00 |
| :--- | :--- | :--- |
| MTH 435 or MTH 437 | MTH 436 or MTH 438 | Complete 120cr |
| MTH Elective | Elective | Meet with advisor to complete intent to <br> graduate form by Oct. 1 |
| Elective | Elective |  |
| Elective | Elective |  |
| Elective | Elective |  |
| $(15$ cr total) | (15 cr total) |  |

Note: This plan is not intended to be prescriptive. Credits in transfer, as well as summer or j-term coursework, may result in deviations from the above recommendations.

