# B．A．in Mathematics（Comprehensive） 

## Academic Program Guide for New First－Year Students（Effective Spring 2024） Department of Mathematics（mathadvising＠rowan．edu）

Students who entered Rowan University prior to Fall 2018 should follow the guide for their program and start year in consultation with their advisor．

## Rowan University Graduation Requirements for all Majors／Degrees

－Students must complete at least 120 semester hours（sh）of coursework that apply to their Rowan University degree．
－Students must have a cumulative GPA of at least 2.0 in Rowan University coursework．（Transfer courses／credit do not count toward the RU GPA．）
－A minimum of 30 sh of coursework must be completed at／through Rowan University．
－Only grades of＂D－＂or above may apply to graduation／degree requirements．（Some programs may set higher minimums．）
－Students must meet the Rowan Core and Rowan Experience Requirements．
o An individual course can potentially satisfy one Rowan Core literacy and／or multiple Rowan Experience attributes．
o Rowan Core and Rowan Experience designations are listed in course details in Section Tally（www．rowan．edu／registrar）and may also be searched on that site under＂Attributes．＂A list of Rowan Core courses is here： https：／／confluence．rowan．edu／display／AS／Rowan＋Core＋Course＋List．
－Students must apply for graduation and should do so for the term in which they will complete all program requirements．

## Program－Specific Graduation Requirements for this Major／Degree

－Students must receive a grade of C－or better in all courses satisfying Major requirements．

## Rowan Core Requirements ${ }^{1}$

Students must satisfy all six Rowan Core Literacies．A minimum total of 3 sh of coursework is required to satisfy each Literacy． With the exception of the 9 sh counted here for Communicative Literacy，credits attached to the courses in this section will apply elsewhere．
（COML）Communicative Literacy：Must be met by the following three courses or their official equivalents：
〇COMP 01111 College Composition I（3 sh）〇COMP 01112 College Composition II（3 sh）〇CMS 04205 Public Speaking（3 sh）
（ARTL）Artistic Literacy Recommendation from major：
（GLBL）Global Literacy Recommendation from major：
（HUML）Humanistic Literacy
（QNTL）Quantitative Literacy
（SCIL）Scientific Literacy

Recommendation from major：
Recommendation from major：MATH 01130 （4 sh counted under major）
Recommendation from major：PHYS 00220 （4 sh counted under non－program）

Subtotal of credits counted in this section： 9 sh

## Rowan Experience Requirements

Students must satisfy all three Rowan Experience attributes．Credits attached to the courses in this section will apply elsewhere．
（LIT）Broad－Based Literature Attribute Recommendation from major：
（WI）Writing Intensive Attribute Recommendation from major：MATH 01498 （3 sh counted under major）
（RS）Rowan Seminar Attribute ${ }^{2}$ Recommendation from major：

## Non－Program Courses（minimum 18 sh）

Courses in this section cannot be in the major department．

| Course \＃ | Course Name | Course Attributes／Notes | Sem／Yr | Grade | Credits |
| :--- | :--- | :--- | :--- | :--- | :---: |
| CS 04103 | Computer Science and Programming |  | Spr／1 | $>=$ C－ | 4 |
| PHYS 00220 | Introductory Mechanics | Satisfies Scientific Literacy | Fall／2 | $>=$ C－ | 4 |
| STAT 02320 | Concepts in Statistical Data Analysis |  | Spr／2 | $>=$ C－ | 3 |
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## B.A. in Mathematics (Comprehensive)

Major Requirements (42-43 sh)

## Summary of Major Requirements

- 24 sh of Foundational Courses
- 9 sh of Mid-Level Courses for the Comprehensive Concentration
- 9-10 sh of Comprehensive Concentration Restricted Electives
- 42-43 sh total


## Foundational Courses

| Course \# | Course Name | Course Designations / Notes | Sem/Yr | Grade | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MATH 03150 | Discrete Mathematics |  | Fall/1 | > $=$ C- | 3 |
| MATH 01130 | Calculus I | Satisfies Quantitative Literacy | Fall/1 | $>=$ C- | 4 |
| MATH 01131 | Calculus II |  | Spr/1 | $>=$ C- | 4 |
| MATH 01230 | Calculus III |  | Fall/2 | $>=$ C- | 4 |
| MATH 01210 | Linear Algebra |  | Fall/2 | > $=$ C- | 3 |
| MATH 01300 | Mathematical Proof Writing |  | Spr/2 | $>=$ C- | 3 |
| MATH 01340 | Modern Algebra I |  | Fall/3 | >= C- | 3 |
|  |  |  |  | Subtotal: 24 sh |  |

## Mid-Level Courses for the Comprehensive Concentration

| Course \# | Course Name | Course Designations / Notes | Sem/Yr | Grade | Credits |  |  |  |  |  |
| :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MATH 01231 | Ordinary Differential Equations |  | Spr/2 | $>=$ C- | 3 |  |  |  |  |  |
| MATH 01330 | Introduction to Real Analysis I |  | Spr/3 | $>=$ C- | 3 |  |  |  |  |  |
| MATH 01498 | Mathematics Seminar | Satisfies WI requirement | Spr/4 | $>=$ C- | 3 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | Subtotal: 9 sh |

Comprehensive Concentaation Restricted Electives
Choose Three of the following courses (take courses in Fall/3, Spring/3 and Fall/4).


## B.A. in Mathematics (Comprehensive)

Free Electives for this Major/Degree (50-51 sh)

| Course \# Course Name | Course Attributes / Notes | Sem/Yr | Grade | Credits |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
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Total Program Credits Required for this Major / Degree: 120 SH


[^0]:    ${ }^{1}$ The Rowan Core requirements are waived for transfer students with an earned A．A．or A．S．degree from a NJ community／county college．
    ${ }^{2}$ The Rowan Seminar requirement is waived for all students transferring 24 or more approved credits into Rowan University at the time of initial entry．

