U N I V E R S I T Y

## Program Progression Guide

Disclaimer: The 2023-2024 Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2023, Spring 2024, and Summer 2024 semesters. The Program Progression Guide assists students in the development of an individualized 8 -semester plan. Students are encouraged to use this guide, myPurduePlan* (online degree auditing tool) and the Student Educational Planner (SEP) as they work with their academic advisor towards the completion of their degree requirements.
Notification: Each student is ultimately responsible for knowing, monitoring and completing all degree requirements.

An undergraduate degree in the College of Science requires completion of the following degree requirements.


* This audit is not your academic transcript and it is not official notification of completion of degree or certificate requirements.

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## 2023-2024 Applied Mathematics Degree Progression Guide

The Mathematics Department has suggested the following degree progression guide for the Applied Mathematics Degree. Students will work with their academic advisors to determine their best path to degree completion.

| Credits | Fall 1st Year | Prerequisite | Credits | Spring 1st Year | Prerequisite |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4-5 | Calculus I Option* | ALEKS 85+ or SATM 670/ACTM 29 requirement | 4-5 | Calculus II Option | Calculus I, C- or higher |
| 3-4 | Science Core Option |  | 3-4 | Programming Option |  |
| 3-4 | Science Core Option |  | 3-4 | Science Core Option |  |
| 1 | Free Elective (MA 10800 recommended) |  | 3 | Free Elective |  |
| 4 | Free Elective |  | 2 | Free Elective |  |
| 15-18 |  |  | 15-18 |  |  |


| Credit | Fall 2nd Year | Prerequisite | Credits | Spring 2nd Year | Prerequisite |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4-5 | Calculus III Option | Calculus II, C- or higher | 3 | MA 35100* Elementary Linear Algebra | Calculus III, C- or higher |
| 3-4 | Science Core Option |  | 3 | STAT 35000 or STAT 35500 | Calculus II, C- or higher |
| 3-4 | Science Core Option |  | 3 | COM 21700 Science Writing and Presentation |  |
| 3 | Free Elective (MA 30100 recommended) | Calculus II, C- or higher | 3-4 | Science Core Option |  |
| 2 | Free Elective |  | 3 | Free Elective |  |
| 15-18 |  |  | 15-16 |  |  |


| Credit | Fall 3rd Year | Prerequisite | Credit | Spring 3rd Year | Prerequisite |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | CS 31400 Numerical Methods | CS Programming and MA 35100 C or higher | 3 | MA 35301 Linear Algebra II with Applications | MA 35100 C- or higher |
| 3 | MA 34100 or MA 44000 | Calculus III, C- or higher | 3-4 | Free Elective |  |
| 3-4 | Science Core Option |  | 3 | MA 36600 Ordinary Differential Equations | Calculus III; co-req or pre MA 35100 C- or higher |
| 3-4 | Science Core Option |  | 3-4 | Science Core Option |  |
| 3 | Free Elective |  |  |  |  |
| 15-17 |  |  | 14-15 |  |  |


| Credit | Fall 4th Year | Prerequisite | Credit | Spring 4th Year | Prerequisite |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | MA 45300 or MA 45000 Algebra | MA 35100 (grade requirement depends on course) | 3 | Math/Statistics Elective | Varies by Class |
| 3 | MA 42500 Elements of Complex Analysis | Varies by Class | 3 | MA 30300 | MA 35100 C- or higher |
| 3 | Math/STAT Option |  | 3 | MA 42800 - Introduction To Fourier Analysis | MA 35100 C- or higher |
| 3 | Science Core Option |  | 6 | Free Elective |  |
| 3 | Great Issues in Science Option |  |  |  |  |
|  |  |  |  |  |  |
| 15 |  |  | 15 |  |  |

Superscript of * (eg Calculus I Option*) indicates a course a student should earn a minimum of a B- see advisor for further details.
Courses in () are recommended.

| Science Core Curriculum Options <br> (one course needed for each requirement unless otherwise noted) |  |
| :---: | :---: |
| Options recommended for first- and second-year students | Options recommended for third- and fourth-year students |
| Written Communcation ${ }^{\text {UC }}$ | Technical Writing and Presentation ${ }^{\text {UC }}$ (COM 217 recommended) |
| Computing (CS 17700 or CS 15900)/Teamwork | Science, Technology, and Society ${ }^{\text {uc }}$ |
| Foreign Language and Culture ${ }^{\text {UC }}$ (3 courses needed) | General Education ${ }^{\text {Uc }}$ (3 courses needed) |
| Laboratory Science (2 course sequence) | Great Issues |


[^0]:    ** University Core Curriculum Outcomes may be met through completion of the College of Science Core curriculum. Students should consult with their academic advisors and myPurdue Plan for course selections.

