## APPLIED MATHEMATICS

REQUIREMENTS
CORE CURRICULUM The Core Curiciculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend

| CORE 1: CRITIC CODE | ICAL THINKING COURSE NAME | HRS | GRADE | CORE 2: CODE | course name | HRS | GRADE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - FYS 100 | First Year Sem Crit Thinking | - 3 |  | ENG 101 | Beginning Composition | - |  |
| - MTH229 | Critical Thinking Course | - 5 |  | - ENG 201 | Advanced Composition | - |  |
|  | Critical Thinking Course | - 3 |  | - Cmm 103 | Fund Speech-Communication | - 3 |  |
|  |  |  |  | - MTH 229 | Calculus/Analytic Geom I (CT) | - |  |
| Additional University Requirements |  |  |  |  | Core II Natural/Physical Science | - 4 |  |
|  | Writing Intensive | 3 |  |  | Core II Humanities | - 3 |  |
|  | Writing Intensive | 3 |  |  | Core II Social Science |  |  |
|  | Multicultural or International | 3 |  |  | Core IIF Fine Arts |  |  | MTH Capstone

COLLEGE-SPECIFIC
All Applied Mathematics majors are required to take 7 additional hours in Physical or Natural Sciences beyond the Core II requirement. These hours must be from two different areas:


MAJOR-SPECIFIC
Students who wish to major in Applied Mathematics must take the following courses
CODE COURSENAME
Calculus/Analytic Geom I (C)

- мтн 230 Calculus/Analytic Geom II

CS 110 Computer Science I
(1) MTH 231 Calculus/Analytic Geom III

- MTH 300 Intro to Higher Math

MTH 331 Linear Algebra
MTH 490 Internship or Sr. Seminar (C) $\quad$ - $2^{2}$
or 491 Intenship or Sr. Semina

| MTH Sequence I | - 3 |
| :---: | :---: |
| MTH Sequence I | - 3 |
| MTH Sequence II | - 3 |
| mTH Sequence | - 3 |

MAJOR INFORMATION of the following elective sequences:

1. Differential Equations: MTH335 and (MTH 415 or MTH 416)
2. Numerical Methods: MTH 443 and (MTH 411 or MTH 442)
3. Probability and Statisticc: STA 445 and STA 446

Science requirement of a minor in another discipline. However, Applied Mathematics majors often elect to complete a second (or more) major(s) and/or one (or more) minor(s).
requirements. The number of elective courses required depends on whether requirements. The number of elective courses required depends on whether
a student is pursuing an outside minor or a 2 nd major. The following are the Stree options:

- No outside

Mathematics Major or Minor: A student may graduate with a major in Applied Mathematics, withouta second major or a minor, by completing an additional
4 elective mathematics courses from the list of electives. The major requires 50
redit hours.
Outside Minors: A student graduating with a single major in Applied Math
and at least one mino outside the department, must complete at least 2

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## FOUR YEAR PLAN COLLEGE OF SCIENCE 2020-202

 MY ADVISOR'S NAME IS:
## APPLIED MATHEMATICS

The Marshall University Department of Mathematics prepare students for careers in the mathematical sciences and related disciplines. Graduates of our mathe matics programs have had successful careers in goverrment and industry. Our graduates have also earned advanced degrees in mathematics, statistics, engineer
ing and economics. Our degree programs may also be used to prepare for secondary mathematics certification and for professions such as law or medicine. The ing, and economics. Our degree programs may also be used to prepare for secondary mathematics certification and for professions suc
department has a dynamic and engaged faculty who focus both on excellent teaching and on many areas of mathematical research.





INVOLVEMENT OPPORTUNITIES - SGA

## Campu

JMELI
Commuter Student Advisory Board

- Community Engagement Ambassadors

Club Sports
Religious organizations
Political organizations
Residence Hall Association
Cultural organization
National Society of Leadership and Success
Math Club
Pi Mu Epsilon Mathematics Association - Greek Life

## RELATED MAJORS

Statistics
Data Science
Business
Finance
Economics
Accounting
Entrepreneurship
Health Informatics
GRADUATION REQUIREMENTS Have a minimum of 120 credit hours (some colleges or majors require more);
Have an overall and Marshall Grade Point Average of 2.00 or higher;
Have an overall Grade Point Average of 2.0 or higher in the major area of study; Have earned a grade of C or better in Englist Have met all
requirements;

- Have met the requirements of the Core Curriculum;
Marshall University, including 12 hours of 300/400 level coursework in the student's college (see section entitled "Residence in the undergaduat catalogue);
Be enrolled at Marshall at least one semester of the senior year;
Have transferred no more than 72 credit hours from an accredited West Virginia two year institution of higher education.

Colleges and specific programs may have unique requirements that are more stringen han those noted above. Students are ensuring that they meet the requirements for graduation.

## APPLIED MATHEMATICS - 2020-2021

## YPAR ONE




## YEAR THREF



TRANSFERABLE SKILLS
ASSOCIATED WITH THIS MAJOR
Mathematical Ability
Attention to Detail
Skills
Organizational Skills
ASSOCIATED CAREERS

- Engineering

Banking
Statistics
Finance

- Actuarial Positions

Data Scienc
Business
Management
Employment with Government Agencies
This academic map is to be used as a guide in planning your coursework toward a degree. Due to the
complexities of degree programs,
it is unfortunate but inevitable that an error may occur in the creation of this document. The official source of degree requirements at Marshall University is DegreeWorks available
in your myMU portal. Always consult regularly with your advisor.

## MARSHALL

Marshall University One John Marshall Drive Huntington, WV 25755 1-304-696-6482 cos@marshall.edu marshall.edu/cos


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