# Crowder College

Crowder Associate of Arts in Mathematics to MSU Bachelor of Science in Mathematics (Comprehensive)

The following is a guide to graduation with completion of Crowder's Associate of Arts in Mathematics and MSU's Bachelor of Science in Mathematics degree. The degree may be completed on campus only. The Mathematics degree is a comprehensive major meaning it does not require completion of a minor. Courses are sequenced to provide guidance and to help ensure that prerequisite requirements are met. Catalog Year: 2022-23. Date modified: 7.1.22. MSU Transfer Advisor: Dr. William Bray, [WBray@MissouriState.edu](mailto:WBray@MissouriState.edu), 417-836-6270. Finish in 4 Go Bears Missouri State University

### Crowder Year 1 Semester 1

Institutional Requirement

* Crowder Course ID/Title: COLL 101 College Orientation
* Credit Hours: 1
* MSU Equivalent: GEN 000
* Meets Core 42: No
* MSU Major Requirement: No

Oral Communications – 3 credit hours

* Crowder Course ID/Title: COMM 104 Fundamentals of Speech
* Credit Hours: 3
* MSU Equivalent: COM 115
* Meets Core 42: Yes
* MSU Major Requirement: No

Major Course

* Crowder Course ID/Title: COMP 111 Introduction to Programming
* Credit Hours: 4
* MSU Equivalent: CSC 131
* Meets Core 42: No
* MSU Major Requirement: No

Mathematical Sciences - 3 credit hours

* Crowder Course ID/Title: MATH 150 Calculus 1, Part 1
* Credit Hours: 2
* MSU Equivalent: MTH 000
* Meets Core 42: Yes
* MSU Major Requirement: No

Social/Behavioral Sciences - 9 credit hours – Civics Requirement

* Crowder Course ID/Title: HST 106, HST 107, PLSC 103
* Credit Hours: 3
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Written Communications - 6 credit hours

* Crowder Course ID/Title: ENGL 101 English Composition
* Credit Hours: 3
* MSU Equivalent: ENG 110
* Meets Core 42: Yes
* MSU Major Requirement: No

Semester 1 Total = 16 credit hours

### Crowder Year 1 Semester 2

Core Elective – 5 hours required for Core 42

* Crowder Course ID/Title: Choose MOTR coded course(s) of your choice with the assistance of an advisor.
* Credit Hours: 2
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Humanities and Fine Arts - 9 credit hours (Must fulfill 2 disciplines)

* Crowder Course ID/Title: Choose one: ART 101, ART 106▲, ART 107, ART 110 ART 111, ASL 101, ASL 102, FREN 101, ENGL 109, ENG 203, ENGL 222, ENGL 225, ENGL 230, ENGL 235, ENGL 240, ENGL 245,  
  MUSC 101, MUSC 106\*▲, MUSC 107\*▲, MUSC 195\*▲, MUSC 196\*▲, MUSC 206\*▲, MUSC 207\*▲,  
  MUSC 295\*▲, MUSC 296\*▲, PHIL 101, PHIL 201, PHIL 202, PHIL 121, SPAN 101, SPAN 101, SPAN 102,  
  TA 205, HIST 101, HIST 102
* Credit Hours: 3
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Natural Sciences – 7 credit hours - (Must fulfill 2 disciplines including one course with a lab component)

* Crowder Course ID/Title: PHYS 190 General Physics 1
* Credit Hours: 5
* MSU Equivalent: PHY 203
* Meets Core 42: Yes
* MSU Major Requirement: No

Mathematical Sciences - 3 credit hours

* Crowder Course ID/Title: MATH 160 Calculus 1, Part 2
* Credit Hours: 3
* MSU Equivalent: MTH 261
* Meets Core 42: Yes
* MSU Major Requirement: Yes

Written Communications - 6 credit hours

* Crowder Course ID/Title: ENGL 102 Advanced English Composition
* Credit Hours: 3
* MSU Equivalent: ENG 210
* Meets Core 42: Yes
* MSU Major Requirement: No

Semester 2 Total = 17 credit hours

### Crowder Year 2 Semester 3

Social/Behavioral Sciences - 9 credit hours - (Must fulfill 2 disciplines)

* Crowder Course ID/Title: Choose one AGEC 123, CJ 101, ECON 201, ECON 202, GEOG 111, HIST 106,  
  HIST 107, PLSC 104, PSYC 101, PSYC 211, SOC 101
* Credit Hours: 3
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Major Course

* Crowder Course ID/Title: MATH 201 Calculus 2
* Credit Hours: 5
* MSU Equivalent: MTH 280
* Meets Core 42: No
* MSU Major Requirement: Yes

Natural Sciences – 7 credit hours (Must fulfill 2 disciplines)

* Crowder Course ID/Title: Choose one: BIOL 101, BIOL 120, BIOL 152, BIOL 252, GEOL 210
* Credit Hours: 4
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Humanities and Fine Arts - 9 credit hours (Must fulfill 2 disciplines)

* Crowder Course ID/Title: Choose one: ART 101, ART 106▲, ART 107, ART 110 ART 111, ASL 101, ASL 102, FREN 101, ENGL 109, ENG 203, ENGL 222, ENGL 225, ENGL 230, ENGL 235, ENGL 240, ENGL 245,  
  MUSC 101, MUSC 106\*▲, MUSC 107\*▲, MUSC 195\*▲, MUSC 196\*▲, MUSC 206\*▲, MUSC 207\*▲,  
  MUSC 295\*▲, MUSC 296\*▲, PHIL 101, PHIL 201, PHIL 202, PHIL 121, SPAN 101, SPAN 101, SPAN 102,  
  TA 205, HIST 101, HIST 102
* Credit Hours: 3
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Semester 3 Total = 15 credit hours

### Crowder Year 2 Semester 4

Social/Behavioral Sciences - 9 credit hours - (Must fulfill 2 disciplines)

* Crowder Course ID/Title: Choose one AGEC 123, CJ 101, ECON 201, ECON 202, GEOG 111, HIST 106,  
  HIST 107, PLSC 104, PSYC 101, PSYC 211, SOC 101
* Credit Hours: 3
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Major Course

* Crowder Course ID/Title: MATH 202 Calculus 3
* Credit Hours: 5
* MSU Equivalent: MTH 302
* Meets Core 42: No
* MSU Major Requirement: Yes

Humanities and Fine Arts - 9 credit hours (Must fulfill 2 disciplines)

* Crowder Course ID/Title: Choose one: ART 101, ART 106▲, ART 107, ART 110 ART 111, ASL 101, ASL 102, FREN 101, ENGL 109, ENG 203, ENGL 222, ENGL 225, ENGL 230, ENGL 235, ENGL 240, ENGL 245,  
  MUSC 101, MUSC 106\*▲, MUSC 107\*▲, MUSC 195\*▲, MUSC 196\*▲, MUSC 206\*▲, MUSC 207\*▲,  
  MUSC 295\*▲, MUSC 296\*▲, PHIL 101, PHIL 201, PHIL 202, PHIL 121, SPAN 101, SPAN 102, TA 205,  
  HIST 101, HIST 102
* Credit Hours: 3
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Major Elective

* Crowder Course ID/Title: MATH 210 Differential Equation
* Credit Hours: 3
* MSU Equivalent: MTH 303
* Meets Core 42: No
* MSU Major Requirement: Yes

Semester 4 Total = 14  
Total Hours at OTC = 62  
Total Hours Applied Toward MSU Major Requirements:

\*One credit hour course ▲ May choose only one, falls under MOTR code 'PERF’

# Missouri State University

MSU Bachelor of Science in Mathematics (Comprehensive)after Crowder Associate of Arts in Mathematics

Date Modified: 7.1.22  
MSU Transfer Advisor: Dr. William Bray, [WBray@MissouriState.edu](mailto:WBray@MissouriState.edu), 417-836-6270

Courses are sequenced to provide guidance and to help ensure that prerequisite requirements are met.

Catalog Year: 2022-23

### MSU Year 3 Semester 1

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 3

General Elective\*\*

* MSU Course ID/Title: Choose any MTH course numbered 400 or higher, in consultation with advisor.
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: MTH 315 Algebraic Structures
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: MTH 333 Linear Algebra
* Credit hours: 3

Major Elective – 18 credit hours required

* MSU Course ID/Title: PLS 232 International Relations
* Credit hours: 3

Semester 1 Total: 15 Credit Hours

### MSU Year 3 Semester 2

Major Requirement

* MSU Course ID/Title: Choose one: MTH 503 Advance Calculus 1
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: Choose one: MTH 421 Numerical Analysis 1, MTH 541 Statistical Theory 2
* Credit hours: 3

Major Elective – 18 credit hours required

* MSU Course ID/Title: Choose any MTH course numbered 400 or higher, in consultation with advisor.
* Credit hours: 3

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 3

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 3

Semester 2 Total: 15 Credit Hours

### MSU Year 4 Semester 3

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 3

Major Elective – 18 credit hours required

* MSU Course ID/Title: Choose any MTH course numbered 400 or higher, in consultation with advisor.
* Credit hours: 3

Major Elective – 18 credit hours required

* MSU Course ID/Title: Choose any MTH course numbered 400 or higher, in consultation with advisor.
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: MTH 532 Introduction to Abstract Algebra
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: MTH 540 Statistical Theory I
* Credit hours: 3

Summer Total = 15 Credit Hours

### MSU Year 4 Semester 4

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 3

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: MTH 497 Topics
* Credit hours: 1

Major Elective – 18 credit hours required

* MSU Course ID/Title: Choose any MTH course numbered 400 or higher, in consultation with advisor.
* Credit hours: 3

Major Elective – 18 credit hours required

* MSU Course ID/Title: Choose any MTH course numbered 400 or higher, in consultation with advisor.
* Credit hours: 3

Credit hours: 3

Semester 4 Total: 13 Credit Hours  
Total Hours at MSU: 58  
Total Hours Overall: 120

\*\* Electives provide the opportunity to customize your degree program. Some elective credits may or may not be needed to bring total credit hours to a minimum of 120 credit hours and upper division hours (300+) to 40.

This degree is also available as a Bachelor of Arts (BA). [Click here to access the Bachelor of Arts Degree Requirements](https://www.missouristate.edu/registrar/catalog/BArequirements.htm) Please consult an MSU transfer advisor to determine your best degree options.

This information is provided as a guide only.

* Crowder students are strongly encouraged to meet with their major specific MSU transfer advisor early in their Crowder education to discuss the most appropriate Crowder coursework for their intended MSU major, MSU degree requirements, etc.
* Students are required to fulfill MSU graduation and GPA requirements to receive a degree and should consult with their MSU advisor and the MSU undergraduate catalog for details, as there may exist pre-requisite requirements as well as periodicity limitations that could affect scheduling sequences.
* Please note that transfer students from Missouri public colleges and universities may follow the general education and general baccalaureate degree requirements in effect at Missouri State when they first enrolled (or re-enrolled after an absence of one calendar year or more) as degree-seeking students at the institutions from which they transferred (e.g., Crowder).