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| Date Modified: | 10.23.20 |
| MSU Transfer Advisor: | Dr. William Bray WBray@MissouriState.edu 417-836-6270 |



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

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.

Catalog Year: 2020-2021



Crowder Year 1 Semester 1

| REQUIREMENT DESCRIPTION | CROWDER COURSE ID/TITLE | | CREDIT HOURS | MSU EQUIVALENT | MEETS CORE 42 | MSU MAJOR REQUIREMENT |
|---|--|--|--------------|-------------------------------|---------------|-----------------------|
| Institutional Requirement | COLL 101 | College Orientation | 1 | GEN 000 | | |
| Oral Communications 3 credit hours | COMM 104 | Fundamentals of Speech | 3 | COM 115 | ✓ | |
| Major Course | COMP 111 | Introduction to Programming | 4 | CSC 131 | | |
| Mathematical Sciences 3 credit hours | MATH 150 | Calculus I, Part I | 2 | MTH 000 | ✓ | |
| Social/Behavioral Sciences 9 credit hours (Must fulfill 2 disciplines) | Choose one: HIST 106 HIST 107 PLSC 103 | U.S. History I U.S. History II National, State, Local Government | 3 | HST 121 HST 122 PLS 101 | ✓ | |
| Written Communications 6 credit hours | ENGL 101 | English Composition | 3 | ENG 110 | ✓ | |
| Semester 1 Total | | | 16 | | | |

Crowder Year 1 Semester 2

| REQUIREMENT DESCRIPTION | CROWDER COURSE ID/TITLE | | CREDIT HOURS | MSU EQUIVALENT | MEETS CORE 42 | MSU MAJOR REQUIREMENT |
|---|---|--|--------------|----------------|---------------|-----------------------|
| Core Elective 5 hours required for Core 42 | Choose MOTR coded course(s) of your choice with the assistance of an advisor. | | 3 | Varies | ✓ | |
| Humanities and Fine Arts 9 credit hours (Must fulfill 2 disciplines) | Choose one: ART 101 ART 106▲ ART 107 ART 110 ART 111 | ASL 101 ASL 102 FREN 101 ENGL 109 ENGL 203 ENGL 222 ENGL 225 ENGL 230 ENGL 235 ENGL 240 ENGL 245 ENGL 225 ENGL 230 ENGL 235 ENGL 240 MUSC 196*▲ MUSC 206*▲ MUSC 106*▲ MUSC 107*▲ MUSC 195*▲ 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 | 3 | Varies | ✓ | |
| Natural Sciences 7 credit hours (Must fulfill 2 disciplines including one course with a lab component) | PHYS 190 | General Physics I | 5 | PHY 203 | ✓ | ✓ |
| Major Course | MATH 160 | Calculus I, Part II | 3 | MTH 261 | ✓ | ✓ |
| Written Communications 6 credit hours | ENGL 102 | Advanced English Composition | 3 | ENG 210 | ✓ | |
| Semester 2 Total | | | 17 | | | |

Crowder Year 2 Semester 3

| REQUIREMENT DESCRIPTION | CROWDER COURSE ID/TITLE | | CREDIT HOURS | MSU EQUIVALENT | MEETS CORE 42 | MSU MAJOR REQUIREMENT | |
|---|--|--|----------------------------------|--|---------------|-----------------------|--|
| Social/Behavioral Sciences 9 credit hours (Must fulfill 2 disciplines) | Choose one: AGEC 123 CJ 101 ECON 201 | ECON 202 GEOG 111 HIST 106 | HIST 107 PLSC 103 PLSC 104 | PSYC 101 PSYC 211 SOC 101 | 3 | Varies ✓ | |
| Major Course | MATH 201 | Calculus II | 5 | MTH 280 | | ✓ | |
| Natural Sciences 7 credit hours (Must fulfill 2 disciplines including one course with a lab component) | Choose one: BIOL 101 BIOL 110 BIOL 120 | BIOL 152 BIOL 252 CHEM 101 | CHEM 104 CHEM 111 GEOL 115 | GEOL 210 PHYS 101 PHYS 105 PHYS 190 | 4 | Varies ✓ | |
| Humanities and Fine Arts 9 credit hours (Must fulfill 2 disciplines) | Choose one: ART 101 ART 106▲ ART 107 ART 110 ART 111 | ASL 101 ASL 102 FREN 101 ENGL 109 ENGL 203 ENGL 222 ENGL 225 ENGL 230 ENGL 235 ENGL 240 ENGL 245 ENGL 225 ENGL 230 ENGL 235 ENGL 240 MUSC 196*▲ MUSC 206*▲ MUSC 106*▲ MUSC 107*▲ MUSC 195*▲ 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 | 3 | Varies | ✓ | | |
| Semester 3 Total | | | 15 | | | | |

Crowder Year 2 Semester 4

| REQUIREMENT DESCRIPTION | CROWDER COURSE ID/TITLE | | CREDIT HOURS | MSU EQUIVALENT | MEETS CORE 42 | MSU MAJOR REQUIREMENT | |
|---|--|--|----------------------------------|---|---------------|-----------------------|--|
| Social/Behavioral Sciences 9 credit hours (Must fulfill 2 disciplines) | Choose one: AGEC 123 CJ 101 ECON 201 | ECON 202 GEOG 111 HIST 106 | HIST 107 PLSC 103 PLSC 104 | PSYC 101 PSYC 211 SOC 101 | 3 | Varies ✓ | |
| Major Course | MATH 202 | Calculus III | 5 | MTH 302 | | ✓ | |
| Humanities and Fine Arts 9 credit hours (Must fulfill 2 disciplines) | Choose one: ART 101 ART 106▲ ART 107 ART 110 ART 111 | ASL 101 ASL 102 FREN 101 ENGL 109 ENGL 203 ENGL 222 ENGL 225 ENGL 230 ENGL 235 ENGL 240 ENGL 245 ENGL 225 ENGL 230 ENGL 235 ENGL 240 MUSC 196*▲ MUSC 206*▲ MUSC 106*▲ MUSC 107*▲ MUSC 195*▲ 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 | 3 | Varies | ✓ | | |
| Major Elective | MATH 210 | Differential Equation | 3 | MTH 303 | | ✓ | |
| Semester 4 Total | | | 14 | | | | |
| Total Hours at Crowder | | | 62 | <i>Total Hours Applied Toward MSU Major Requirements:</i> | | | |

* One credit hour course

▲ May choose only one, falls under MOTR code 'PERF'

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

Catalog Year: 2020-2021

MSU Year 3 Semester 1

| REQUIREMENT DESCRIPTION | MSU COURSE ID/TITLE | | CREDIT HOURS |
|---|---|----------------------|--------------|
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 3 |
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 3 |
| Major Requirement | MTH 315 | Algebraic Structures | 3 |
| Major Requirement | MTH 333 | Linear Algebra | 3 |
| Major Elective <i>18 credit hours required</i> | Choose any MTH course numbered 400 or higher, in consultation with advisor. | | 3 |
| Semester 1 Total | | | 15 |

MSU Year 3 Semester 2

| REQUIREMENT DESCRIPTION | MSU COURSE ID/TITLE | | CREDIT HOURS |
|---|---|---|--------------|
| Major Requirement | MTH 503 | Advanced Calculus I | 3 |
| Major Requirement | Choose one: | | 3 |
| | MTH 421 MTH 541 | Numerical Analysis I Statistical Theory II | |
| Major Elective <i>18 credit hours required</i> | Choose any MTH course numbered 400 or higher, in consultation with advisor. | | 3 |
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 3 |
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 3 |
| Semester 2 Total | | | 15 |

MSU Year 4 Semester 3

| REQUIREMENT DESCRIPTION | MSU COURSE ID/TITLE | | CREDIT HOURS |
|---|---|----------------------------------|--------------|
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 2 |
| Major Elective <i>18 credit hours required</i> | Choose any MTH course numbered 400 or higher, in consultation with advisor. | | 3 |
| Major Elective <i>18 credit hours required</i> | Choose any MTH course numbered 400 or higher, in consultation with advisor. | | 3 |
| Major Requirement | MTH 532 | Introduction to Abstract Algebra | 3 |
| Major Requirement | MTH 540 | Statistical Theory I | 3 |
| Semester 3 Total | | | 15 |

MSU Year 4 Semester 4

| REQUIREMENT DESCRIPTION | MSU COURSE ID/TITLE | | CREDIT HOURS |
|---|---|--------|--------------|
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 3 |
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 3 |
| Major Requirement | MTH 497 | Topics | 1 |
| Major Elective <i>18 credit hours required</i> | Choose any MTH course numbered 400 or higher, in consultation with advisor. | | 3 |
| Major Elective <i>18 credit hours required</i> | Choose any MTH course numbered 400 or higher, in consultation with advisor. | | 3 |
| Semester 4 Total | | | 13 |
| 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](#)
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).