Mathematical Sciences (BS) Curriculum Worksheet (2026 – 2027)

Mathematical Sciences (BS) & Biology Concentration

This worksheet outlines the required courses for this major. Students are expected to be familiar with general education and major-specific requirements for their intended major as outlined in the Clemson Undergraduate Catalog. Additionally, students must satisfy any Tri-County prerequisites for the courses below. To complete Bridge program requirements (courses listed in **BOLD**), students must earn 30 credits at Tri-County and a 2.5 GPA during their Bridge year (fall, spring, and optional summer, if needed). Students should consult the backside of this worksheet, the Undergraduate Catalog, and the Bridge Academic Guide for Clemson course equivalencies and alternative courses if students wish to enroll in other courses or if any of the following requirements have been met through dual enrollment or AP/IB credit. Advising worksheets are supplemental planning aids and are for informational purposes only.

SUGGESTED CORE COURSE SEQUENCE

Fall Semester

ENG 101 or ENG 103

MAT 140

Social Sciences Req.[1]

Natural Science w/ Lab Req.[2]

Total Hours: 14

Advising Notes:

Spring Semester

ENG 102 or Arts & Humanities (Lit.) Req.[3]

Arts & Humanities (Non-Lit.) Req.

MAT 141

Natural Science Req.[2]

SPC 200 or SPC 205

Total Hours: 17

Advising Notes:

Additional Course Options

Social Sciences Req.	MAT 240
CHM 110[4]	MAT 242
	PHY 221 or PHY 201 & 202[4]

[1] See the reverse side of this worksheet for suggested courses to fulfill this requirement.
[2] A two-semester sequence. See the reverse side of this worksheet for suggested courses to fulfill this requirement. Students planning to pursue the Biology concentration are required to take BIO 113 and 114 to fulfill this requirement.
[3] If ENG 101 + 102 is taken for English Composition requirement, ENG 102 should be taken instead of the Arts & Humanities (Lit.) req.
[4] Students planning to pursue the Biology concentration are also required to take CHM 110, 111, 211, and 212 as well as PHY 221 or PHY 201 & 202.

Any student with dual enrollment or AP/IB credit for the courses mentioned above should consult the Clemson Undergraduate Catalog & Bridge Student Academic and Advising Guide for additional coursework that fulfills major and Bridge program requirements.

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Advising worksheets are supplemental planning aids. While every effort is made to ensure accuracy, the student's responsibility is to understand and meet degree requirements in the applicable Undergraduate Catalog. Contact (SCIENCEinfo@clemson.edu) for additional information about this worksheet.

General Education Requirements	Tri-County Courses	Clemson Equivalent Courses
Communication (6 total credits): *Developing and expressing ideas.*		
A. English Composition: 3 – 6 credits	**ENG 103 or ENG 101** + **ENG 102**	ENGL 1030 or ENGL 1999 + 1030
B. Oral Communication: 3 credits	SPC 200 or SPC 205	COMM 1500 or COMM 2500
	Students pursuing Army ROTC may satisfy the oral communication requirement by completing MLS 107 + MLS 108.	
Ways of Knowing (19 total credits): *Employing intellectual inquiry.*		
C. Arts & Hum. (Lit.): 3 credits	*Select one course from the following:* ENG 201, ENG 202, ENG 205, ENG 206, ENG 208, ENG 209, or ENG 220	*Select one course from the following:* ENGL 2140, ENGL 2130, ENGL 2120, or ENGL 2150
D. Arts & Hum. (Non-Lit.): 3 credits	*Select one course from the following:* ART 101, ART 107, HSS 205, MUS 105, PHI 101, PHI 105, or PHI 110	*Select one course from the following:* ART 2100, AAH 1010, STS 1010, MUSC 2100, PHIL 1010, PHIL 1020, or PHIL 1030
E. Mathematics: 8 credits	**MAT 140** MAT 141	MATH 1060 MATH 1080
F. Natural Science w/lab: 8 credits	*Select one sequence from the following:* **AST 101** & AST 102 BIO 101 & BIO 102 BIO 113* & BIO 114* CHM 110* & CHM 111* PHY 201* & PHY 202* PHY 221* & PHY 222*	*Select one sequence from the following:* ASTR 1010/1030 & ASTR 1020/1040 BIOL 1030/1050 & BIOL 1040/1060 BIOL 1100/1101 & BIOL 1110/1111 CH 1010/1011 & CH 1020/1021 PHYS 2070/2090 & PHYS 2080/2100 PHYS 1220/1240 & PHYS 2230/2230
	**Required for students planning to pursue Biology concentration.*	
G. Social Sciences: 6 credits **Note: Second Social Science course must be from a different discipline than the first course (i.e., HIS 101 and HIS 201 cannot be used to satisfy both requirements).*	*Select two courses from the following:* ANT 101, ECO 210, ECO 211**, HIS 101, HIS 102, HIS 201***, HIS 202, PSC 201***, PSY 201, SOC 101, or SOC 205	*Select one course from the following:* ANTH 2010, ECON 2120, ECON 2110, HIST 1720, HIST 1730, HIST 1010, HIST 1020, POSC 1010, PSYC 2010, SOC 2010, or SOC 2020
	***ECO 211 recommended.* ****HIS 201 or PSC 201 recommended as they satisfy the REACH Act for graduation.*	
Global Challenges (6 total credits): *Exploring global, local, regional, national, international, virtual, or philosophical challenges.*		
H. Global Challenges: 3 credits	*Select one course from the following:* BIO 209, GEO 102, HIS 122, PSC 220, or REL 201	*Select one course from the following:* ENSP 2000 + ENSP 2999, GEOG 1030, HIST 1220, POSC 1020, or REL 2010
	Students should complete 3 credits during Bridge. At Clemson, an additional 3 credits must be completed at the 3000 level or higher. Courses must be from two different fields unless interdisciplinary; transfer credit does not satisfy the upper-level requirement.	

Any student with dual enrollment or AP/IB credit for the courses mentioned above should consult the Clemson Undergraduate Catalog & Bridge Student Academic and Advising Guide for additional coursework that fulfills major and Bridge program requirements.

Mathematical Sciences/Data Science Engagement Opportunities

What co- and/or extracurricular activities should I get involved in at Clemson?
Getting involved in co- and extracurricular activities at Clemson is a great way to build community, develop skills, and explore your academic interests in mathematics and data science. You might consider joining:

- **Actuarial Club** to connect with peers interested in actuarial science and related careers
- **Association for Women in Mathematics** to support and empower women in the field
- **Clemson University Council of Teachers of Mathematics** for those interested in math education
- **Math Club** to engage in problem-solving, discussions, and community with other math students
- **Clemson Biomedical Data Science and Informatics Student Association** to explore interdisciplinary applications of math and data in health and science

These organizations provide opportunities for networking, professional development, and hands-on engagement that will enhance both your academic experience and future career prospects.

Are there any co- and/or extracurricular activities I should get involved in at Tri-County?
At Tri-County, you can get involved in meaningful ways that support both your academic success and personal development. Consider participating in:

- Student Success Coaching to build skills in time management, organization, and academic planning
- Student Leadership Council to develop leadership experience, connect with peers, and engage in campus initiatives

These opportunities help you grow as a student, build confidence, and prepare for a smooth transition to Clemson.

What opportunities should I be looking into, that will look good for my resume?
To strengthen your resume, you should pursue opportunities that demonstrate leadership, involvement, and career exploration. Consider getting involved in:

- **Bridge to Clemson Orientation Ambassador** to build leadership, communication, and mentorship skills
- **National Society of Leadership and Success (NSLS)** at TCTC or Clemson for leadership development and professional growth
- **Technology Club (TCTC)** to develop technical skills and collaborate with peers
- **Shadowing experiences** in your field of interest to gain real-world insight and clarify career goals

These experiences help you stand out by showcasing initiative, leadership, and a commitment to your future career.

Should I prepare for higher education (a Master's or Doctoral degree) in my field?
Whether you should prepare for a Master's or Doctoral degree depends on your career goals, but in fields like mathematics, statistics, or data science, pursuing advanced education is often beneficial and sometimes expected. Many careers in these areas—especially those involving research, analytics, or specialized technical work—may require or strongly prefer a graduate degree. You should begin exploring potential pathways early, such as:

- **Mathematics graduate programs** for theoretical, applied, or academic-focused careers
- **Statistics programs** for careers in data analysis, research, or industry applications
- **Data Science programs** for roles in analytics, technology, and decision-making

Researching these options and their prerequisites will help you determine if graduate school aligns with your interests and allow you to plan your coursework and experiences accordingly.

Are there any experiential learning opportunities I can participate in when I get to Clemson?
Clemson offers many experiential learning opportunities to help you gain hands-on experience and explore your interests in the sciences. You can get involved in:

- Creative Inquiry (CI) for undergraduate research and real-world problem solving
- Catalyst Competition to build innovation, teamwork, and presentation skills
- College of Science Career Fair to connect with employers and explore internships or jobs
- College of Science Career Exploration Day to learn about potential career paths and industries

These opportunities allow you to apply classroom knowledge, develop professional skills, and better prepare for your future career.

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