



Mathematical Sciences (BS) Curriculum Worksheet (2022-2023)

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, 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 Req.²

Total Hours: 16

Advising Notes:

Spring Semester

ENG 102 or Arts & Hum. (Lit.) Req.³

Arts & Hum. (Non-Lit.) Req.⁴

MAT 141

Natural Science Req.²

Total Hours: 15-16

Advising Notes:

Additional Course Options

SPC 200 or SPC 205

MAT 240

CHM 110⁵

MAT 242

Social Sciences Req.¹

PHY 221 or PHY 201 & 202⁶

¹ See Mathematics Sciences BS curriculum worksheet for suggested courses to fulfill this requirement.

² A two-semester sequence. See Mathematical Sciences BS curriculum worksheet for suggested courses to fulfill this requirement. Student 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.) requirement.

⁴ Select any course from the Bridge Student Academic and Advising Guide that fulfills the Arts & Humanities (Non-Lit.) requirement.

⁵ For students pursuing the Biology Concentration, CHM 110, CHM 111, CHM 212, and CHM 212 are also required.

⁶ Students planning to pursue the Biology concentration are required to take PHY 201 & 202 to fulfill this requirement.



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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 Clemson adviser Adam Hunter (hunter3@clemson.edu) for additional information about this worksheet.

General Education Requirements	Tri-County Courses	Clemson Equivalent Courses
Communication (6 total credits): <i>Developing and expressing ideas.</i>		
A. English Composition: 3 – 6 credits	ENG 103 <u>or</u> 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
Ways of Knowing (19 total credits): <i>Employing intellectual inquiry.</i>		
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 2120, ENGL 2130, ENGL 2140, 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, PHI 110, REL 101, REL 201, or THE 101	Select one course from the following: ART 2100, AAH 1010, STS 1010, MUSC 2100, PHIL 1010, PHIL 1020, PHIL 1030, REL 1010, REL 1020, or THEA 2100
E. Mathematics: 8 credits	MAT 140 & MAT 141	MATH 1060 & MATH 1080
Natural Science w/lab: 8 – 10 credits	Select one sequence of courses 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 of courses from the following: ASTR 1010/1030 & ASTR 1020/1040 BIOL 1030/1050 & BIOL 1040/1060 BIOL 1100* & BIOL 1110* CH 1010 & CH 1020 PHYS 2070/2090* & PHYS 2080/2100* PHYS 1220/1240* & PHYS 2230/2230*
<i>*Required for students planning to pursue Biology Concentration</i>		
F. Social Sciences: 6 credits <i>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).</i>	Select one course from the following: ANT 101, ECO 210, ECO 211*, GEO 102, HIS 101, HIS 102, HIS 122, HIS 201**, HIS 202, PSC 201, PSC 220, PSY 201*, SOC 101**, or SOC 205	Select one course from the following: ANTH 2010, ECON 2120, ECON 2110, GEOG 1030, HIST 1720, HIST 1730, HIST 1220, HIST 1010, HIST 1020, POSC 1010, POSC 1020, PSYC 2010, SOC 2010, or SOC 2020
<p style="text-align: center;"><i>*ECO 211 recommended</i> <i>**HIS 201 and PSC 201 strongly recommended as they satisfy the REACH requirement for graduation.</i></p>		
Global Challenges (6 total credits): <i>Exploring global, local, regional, national, international, virtual, or philosophical challenges.</i>		
G. Global Challenges: 6 credits	<i>Will complete at Clemson. Students will take a minimum of 6 credit hours, selected from two different fields (unless interdisciplinary), and at least three hours at the 3000-level or above.</i>	