

Master of Arts in Teaching Biology Curriculum Worksheet

MAT candidates must complete 18 hours of graduate-level education courses, 3 hours of content methods course, and 15 hours of graduate-level biology courses with a minimum grade point average of 3.0. Candidates can opt to complete 18 hours of graduate-level biology courses to be eligible to teach at the post-secondary level, but this is not a requirement of the program. The curriculum will be delivered over four consecutive semesters. The M.A.T. program is designed to provide courses to support candidates' educational foundation theory and knowledge during the first semesters, and content and pedagogical knowledge, skills, and dispositions with practica and internship experiences during latter semesters. The latter semesters will consist of completing an action research project and finishing content courses. Biology faculty will teach content courses. All professional education courses and clinical/internship experiences will be taught and supervised by education faculty and public school mentor teachers. Content specialists in Biology will teach the content curriculum and methods courses. Our partnership school districts will serve as collaborative sites for field experiences and internships.

Required Education Courses (18 hours)

Grade*	Course prefix/number	Course name (hours)	Semester to be taken
	EDUC 5100	Social & Cultural Awareness in Am. Ed. (3)	1 st Summer
	EDUC 5101	Exceptionalities & Cognitive Dev. of Learners (3)	1 st Fall
	EDUC 5200	Curr. & Instr. Teaching Sec. School Learners (3)	1 st Summer
	EDUC 5102	MAT Practicum (2)	Fall before internship
	EDUC 5300	Internship Seminar (1)	Last Spring
	EDUC 5301	Secondary School Internship (4)	Last Spring
	EDUC 5400	Action Research Project I (1)	Fall before internship
	EDUC 5400	Action Research Project II (1)	Last Spring

Required Content Methods Course (3 hours)

Grade	Course prefix/number	Course name (hours)	Semester to be taken
	SCI 5901	Methods in Teaching Secondary Biology (3)	Fall before internship

Required Biology Courses (15 hours)

Grade	Course prefix/number	Course name (hours)	Semester to be taken
	BIOL 5400	Science and Society (3)	1 st Spring
	BIOL 5xxx	Biology elective I**(3)	1 st Spring
	BIOL 5xxx	Biology elective II**(3)	1 st Summer
	BIOL 5xxx	Biology elective III**(3)	Spring or Fall
	BIOL 5xxx	Biology elective IV**(3)	Spring or Fall

*Must earn a grade of B or higher.

**Biology electives would include any 5000-level courses. It is essential to take a minimum of two content classes during the first spring and a minimum of one during the first summer term.

Other Requirements

Requirement	Timeline
<input type="checkbox"/> MAT Bootcamp	Summer Prior to Fall practicum
<input type="checkbox"/> Presentation of culminating portfolio	Prepared in final fall and spring terms; presented in final spring
<input type="checkbox"/> Passing scores on GACE content exams	TBD
<input type="checkbox"/> Field placement acceptance	TBD
<input type="checkbox"/> Passing EdTPA Assessment	Final spring term

Sample Program of Study starting in Fall

Fall	Spring	Summer	Fall	Spring
BIOL 5xxx (3 hours)	BIOL 5xxx (3 hours)	EDUC 5100 (3 hrs.)	EDUC 5102 (2 hrs.)	EDUC 5300 (1 hr.)
EDUC 5101 (3 hrs.)	BIOL 5xxx (3 hours)	EDUC 5200 (3 hrs.)	SCI 5901 (3 hrs.)	EDUC 5301 (4 hrs.)
	BIOL 5xxx (3 hours)	BIOL 5xxx (3 hours)	EDUC 5400 (Part 1--1 hr.)	EDUC 5400 (Part 2—1 hr.)
6 hours	9 hours	9 hours	6 hours	6 hours

Sample Program of Study starting in Spring

Spring	Summer	Fall	Spring
BIOL 5xxx (3 hours)	EDUC 5100 (3 hrs.)	EDUC 5102 (2 hrs.)	EDUC 5300 (1 hr.)
BIOL 5xxx (3 hrs.)	EDUC 5200 (3 hrs.)	SCI 5901 (3 hrs.)	EDUC 5301 (4 hrs.)
BIOL 5xxx (3 hours)	BIOL 5xxx (3 hours)	EDUC 5101 (3 hrs.)	EDUC 5400 (Part 2—1 hr.)
		EDUC 5400 (Part 1--1 hr.)	BIOL 5xxx (3 hours)
9 hours	9 hours	9 hours	9 hours

Sample Program of Study starting in Summer

Summer	Fall	Spring	Summer	Fall	Spring
EDUC 5100 (3 hrs.)	BIOL 5xxx (3 hours)	BIOL 5xxx (3 hours)	BIOL 5xxx (3 hours)	EDUC 5102 (2 hrs.)	EDUC 5300 (1 hr.)
EDUC 5200 (3 hrs.)	EDUC 5101 (3 hrs.)	BIOL 5xxx (3 hrs.)		SCI 5901 (3 hrs.)	EDUC 5301 (4 hrs.)
		BIOL 5xxx (3 hours)		EDUC 5400 (Part 1--1 hr.)	EDUC 5400 (Part 2—1 hr.)
6 hours	6 hours	9 hours	3 hours	6 hours	6 hours