

**Bachelor of Arts or Science with a major in Chemistry and Secondary Teacher Education Program (STEP)  
(2018/2019 Catalog)**

**MAJOR REQUIREMENTS**

Oakland University Courses	Macomb Community College Options
CHM 1440 & 1470	CHEM 1170
CHM 1450 & 1480	CHEM 1180
CHM 2340, 2350, & 2370	CHEM 2260, 2280, & 2270
MTH 1554	MATH 1760
MTH 1555	MATH 1770
PHY 1510 & 1100	PHYS 2220
PHY 1520 & 1110	PHYS 2230
BIO 1200	BIOL 1000
ENV 3080 or PHY 1060 (additional options available at OU)	BIOL 1310, GEOL 1140 or ESCI 1210

**Additional courses required for those choosing the Integrated Science Endorsement**

BIO 1300	BIOL 1010
ENV 3080 or PHY 1060 (take whichever one not complete above)	BIOL 1310, GEOL 1140 or ESCI 1210

**MICHIGAN TRANSFER AGREEMENTS:**

In many cases it is to a student's advantage to complete the MTA or MACRAO agreement when fulfilling General Education requirements. This may allow for more flexibility when creating a schedule while at your community college. When choosing to complete MTA or MACRAO, please confirm the best courses to take to fulfill the agreement with your academic adviser at Macomb or [MTA Approved Courses](#)

**Additional course requirements for MTA when following this major guide (minimum 30 credit hours required for MTA):**

MTA Approved English Composition Course – ENG 1180 or 1210  
 MTA Approved English Composition Course – ENG 1190 or 1220 (this is a prerequisite for coursework at OU)  
 Two MTA Approved Humanities & Fine Arts Courses  
 Two MTA Approved Social Science Courses

***SPECIAL NOTE REGARDING MTA OR MACRAO:*** In some cases, completing the MTA or MACRAO agreement may not be practical. When using MTA or MACRAO, your ability to make the most efficient course selections at OU may be impacted depending on your accumulated credits and chosen OU major. For more details on whether or not it is recommended for you to complete MTA or MACRAO, please consult with an OU academic adviser.

**If you plan to transfer without completing a transfer agreement, please reference the table below for courses that satisfy individual categories.**

**GENERAL EDUCATION REQUIREMENTS**

**40 credits are required from categories 1-10. Each of these categories must be fulfilled by completing one course of at least 3 or more credits. A course may not be used in more than one of these categories. Please see OU Catalog for further information.**

1. Writing Foundations	ENGL 1190 or 1220 (minimum grade of B required for STEP)
2. Formal Reasoning	Satisfied by Major – MATH 1760
3. Arts	ARTT 1620, 2650, 2660; HIST 2340; HUMN 1210, 1270, 1300, 1460; MUSC 1030, 1040, 2710, 2720
4. Foreign Language and Culture	CHIN 1260, 1270, ARAB, GRMN 1260, 1270, 2360 FREN, ITAL, SPAN 1260, 1270, 2360, 2370
5. Global Perspective	ANTH 1000, 1100; ECON 2110; GEOG 2000; HIST 2520, 2650; HUMN 1700, 2000; INTL 2000, 2010, 2300, 2700, 2800; MUSC 1040; POLS 1600
6. Literature	ENGL 1730, 2510, 2520, 2600, 2610, 2710, 2720, 2730, 2740, 2800, 2810, 2850; HUMN 1750
7. Natural Science and Technology	Satisfied by Major – CHEM 1170, PHYS 2220
8. Social Science	ANTH 1000, 1100, 1200; ECON 1160, 1170, 2110; POLS 1000, 1600, 1900; PSYC 1010; SOCY 1010
9. Western Civilization	HIST 1500, 1600, 1700, 2000, 2100, 2200, 2360; PHIL 2010, 2100
10. Knowledge Applications	Satisfied by Major – MATH 1770, PHYS 2230
U.S. Diversity – May double count with categories 1-10	ENGL 2740; HIST 2100, 2200; HUMN 1270, 1460; POLS 1000; SOCY 1010, 2550
Capstone & Writing Intensive in the Major	<b>These general education requirements MUST be met by courses taken at Oakland University.</b>

**Students who complete MTA or MACRAO according to this guide satisfy general education categories 1-9 and U.S. Diversity.**

**EXPLORATORY:**

The College of Arts and Sciences Exploratory Requirement is met with required STEP minor/endorsement (choose minor courses with OU adviser approval).

NOTES:

The College of Arts and Sciences requires that a minimum of 16 credits in the major be completed at Oakland University.

Please contact College of Arts and Sciences Advising at [oakland.edu/casadvising](http://oakland.edu/casadvising) or (248) 370-4567 for additional information regarding your degree requirements.

**Students pursuing Secondary Education must apply and be accepted into STEP at Oakland University (OU).**

Course work more than 10 years old is subject to re-evaluation by the Chemistry department.