

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

MAJOR REQUIREMENTS

Oakland University Courses	Macomb Community College Options
PHY 1510 & 1100	PHYS 2220
PHY 1520 & 1110	PHYS 2230
MTH 1554	MATH 1760
MTH 1555	MATH 1770
MTH 2554	MATH 2760
APM 2555	MATH 2770 - accepted
CHM 1440 & 1470	CHEM 1170
CHM 1450 & 1480	CHEM 1180
BIO 1200 OR higher OU equivalent (not BIO 3000)	BIOL 1000
PHYS 1060	GEOL 1140 or ESCI 1210
ENV 3080	BIOL 1310

Additional courses for those choosing the Integrated Science Endorsement

BIO 1300	BIOL 1010
CHM 2340	CHEM 2260

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)
 MTA Approved Humanities & Fine Arts Course
 MTA Approved Humanities & Fine Arts Course
 MTA Approved Social Science Course
 MTA Approved Social Science Course

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.

When transferring without 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	ARAB 1260, 1270, 2360; CHIN 1260, 1270; FREN 1260, 1270, 2360, 2370; GRMN 1260, 1270, 2360; ITAL 1260, 1270, 2360, 2370; 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 -- 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
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	These general education requirements MUST be met by courses taken at Oakland University.

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 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).