

**Bachelor of Science with a major in Physics and Secondary Teacher Education Program (STEP)
(2017/2018 Catalog)**

MAJOR REQUIREMENTS	
Oakland University Courses	St. Clair County Community College Options
PHY 1510 & 1100	PHY 221
PHY 1520 & 1110	PHY 222
PHY 200-level elective (additional course options available at OU)	PHY 232
MTH 1554	MTH 114
MTH 1555	MTH 215
MTH 2554	MTH 216
APM 2555	MTH 217 (accepted)
CHM 1440 & 1470	CHM 111
CHM 1450 & 1480	CHM 112
BIO 1200 OR higher OU equivalent (not BIO 3000)	BIO 100 (choose this course if completing Integrated Science Endorsement) OR BIO 205 or BIO 206
PHY 1060	GLG 101, 102 or GEO 101
PHY 1150	GEO 137

Additional courses for those choosing the Integrated Science Endorsement	
BIO 1300	BIO 200 and 250
CHM 2340	CHM 215
PHY 1040	AST 104 and AST 106

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 SC4 or [MTA Approved Courses](#)

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

- ENG 101 (MTA Approved Communications Course)
- ENG 102 (MTA Approved Communications Course; this is a prerequisite for coursework at OU)
- MTA Approved Social Science Course
- MTA Approved Social Science Course
- MTA Approved Humanities Course
- MTA Approved Humanities 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.

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	ENG 102 (minimum grade of B or better required for STEP)
2. Formal Reasoning	Satisfied by Major – MTH 114
3. Arts	ART 120, 121, 122; ENG 255; MUS 106; THA 101
4. Foreign Language and Culture	FR, GR, SP (101, 102, 203 or 204)
5. Global Perspective	ANT 171; GEO 102, 233; PS 230
6. Literature	ENG 205, 206, 208, 210, 211, 212, 220, 221, 225, 230, 231, 236, 243
7. Natural Science and Technology	Satisfied by Major – PHY 221
8. Social Science	ANT 171; BUS 221, 222; PS 101, 230; PSY 180; SOC 101, 200
9. Western Civilization	HIS 101, 102, 149, 150, 233; PHL 210, 213
10. Knowledge Applications	Satisfied by Major – MTH 215
U.S. Diversity – May double count with categories 1-10	ENG 225, 255; HIS 149, 150, 233, 297; PS 101; SOC 101, 201
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:

- 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).**