

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

MAJOR REQUIREMENTS	
Oakland University Courses	Oakland Community College Courses
PHY 1510 & PHY 1100	PHY 2400
PHY 1520 & PHY 1110	PHY 2500
MTH 1554	MAT 1730
MTH 1555	MAT 1740
MTH 2554	MAT 2740
APM 2555	MAT 2810 and 2880
CHM 1440 & CHM 1470	CHE 1510
CHM 1450 & CHM 1480	CHE 1520
BIO 1200 OR higher OU equivalent (not BIO 3000)	BIO 1530
PHY 1060	GSC 1510 <i>or</i> 1530
ENV 3080	BIO 1500 (additional course options available at OU)

Additional courses for those choosing the Integrated Science Endorsement	
BIO 1300	BIO 1560
CHM 2340	CHE 2610
PHY 1040	GSC 1580

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 OCC or [MTA Approved Courses](#)

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

- ENG 1510 (MTA Approved Composition Course)
- ENG 1520 (MTA Approved Composition Course; this is a prerequisite for coursework at OU)
- MTA Approved Social Science Course
- MTA Approved Social Science Course
- MTA Approved Fine Arts/Humanities Course
- MTA Approved Fine Arts/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 1520 (minimum grade of B required for STEP)
2. Formal Reasoning	Satisfied by Major – MAT 1730
3. Arts	ART 1560, 2600; FSH 1500; HUM 1510, 1520, 1900; MUS 1540, 1550, 1560, 1585, 1590; THE 1561
4. Foreign Language and Culture	CHI 1510; ARB, GER, ITA 1510, 1530; FRE, JPN, SPA 1510, 1530, 2610, 2620
5. Global Perspective	ANT 1540; GEO 1520; HIS 1520, 1550; HUM 1710; POL 2530, 2610
6. Literature	ENG 1610, 1710, 1720, 2300, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2750, 2760, 2770; HUM 2720, 2900
7. Natural Science and Technology	Satisfied by Major – PHY 2400
8. Social Science	ANT 1520, 1540; ECO 2610, 2620; POL 1510, 2530, 2610; PSY 2510; SOC 2510
9. Western Civilization	HIS 2510, 2520, 2610, 2620; PHI 1510, 1610
10. Knowledge Applications	Satisfied by Major – MAT 1740
U.S. Diversity – May double count with categories 1-10	COM 2290, ENG 2570, HIS 2510, 2520, 2610, 2620; HUM 1900; MUS 1590; POL 1510; SOC 2510, 2530, 2620
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.

Recent Changes:

- **HIS 1520 may be used to satisfy either Global Perspective or Western Civilization category of General Education, must be transferred in before the start of Fall Semester 2019.**
- **HIS 1510 may be used to satisfy the Western Civilization category of General Education, must be transferred in before the start of Fall Semester 2019.**

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).**