

Physics

Bachelor of Science (BS)
College of Letters & Science

The following guide is intended to assist you in planning for your eventual transfer to and graduation from UW Oshkosh. This guide includes only the requirements that can be completed at the UW Colleges. It is not a requirement, nor always advisable, to complete all courses listed in this guide prior to transfer. For a full list of requirements refer to the additional resources included in the pages below. Note that this guide is an advisory tool only and subject to change.

UW OSHKOSH ADMISSION

- Submit the UW System application, available online at: <http://apply.wisconsin.edu>.
- Send official transcripts from all post-secondary institutions attended.
- Send official high school transcripts if fewer than 30 transferable college credits have been earned.

UNIVERSITY STUDIES PROGRAM & DEGREE REQUIREMENTS

Students who transfer with the Associate of Arts and Science degree will have met the University Studies Program (USP) or general education requirements, but **NOT** necessarily the degree requirements for the BS. The requirements are combined in this guide to help illustrate the most efficient course selections.

AAS – Indicates a course or requirement where the Associate of Arts and Science degree and the UW Oshkosh requirements overlap.

WRITING

UW Oshkosh	UW Colleges Equivalent
WBIS 188	<input type="checkbox"/> ENG 101
English 312	<input type="checkbox"/> ENG 102 (AAS)

SPEAKING

UW Oshkosh Course Requirement	UW Colleges Equivalent
COMM 111	<input type="checkbox"/> CTA 103 (AP for AAS)

NATURE - MATHEMATICS

Level 1 (Choose *one* of the options below.)

UW Oshkosh Course Requirement	UW Colleges Equivalent
Math 104 (+ 106 if required for calculus)	<input type="checkbox"/> Math 110 (AAS) (+ 113 if required)
Math 108	<input type="checkbox"/> MAT 124

Level 2 (Calculus is required of all Physics majors, and therefore, the only option listed.)

UW Oshkosh Course Requirement	UW Colleges Equivalent
Calculus: Math 171 (Math 106 pre-req) or 206	<input type="checkbox"/> MAT 221 or 211

NATURE – LABORATORY SCIENCE (16 credits)

Completion of the natural science area for the B.S. calls for specific requirements. Among these requirements is the fact that ALL courses must include a lab. For the remaining details, see Area 1, 2, and 3 below.

Area #1 – Two lab science courses from the same department. *Choose one sequence from the following list.*

Physics 109 and 110 are required of all Physics majors.

UW Oshkosh Course Requirement ~ Sequences	UW Colleges Equivalent ~ Sequences
Biology 105 AND . . . Biology 230 Biology 231 Biology 233 Biology Elective	<input type="checkbox"/> BIO 101 (109) AND (<i>Choose one</i>) . . . <input type="checkbox"/> BIO 171 (ZOO 101) <input type="checkbox"/> BIO 162 (BOT 130) <input type="checkbox"/> BIO 251 (BAC 201) <input type="checkbox"/> Any BIO lab science with BIO 101 as the prerequisite*
Chemistry 101 AND 102	<input type="checkbox"/> CHE 125 AND <input type="checkbox"/> CHE 204 or CHE 203 + 211
Chemistry 105 AND 106	<input type="checkbox"/> CHE 145 AND <input type="checkbox"/> CHE 155
Geography 121 AND 221 (122)	<input type="checkbox"/> GEO 123/MLG 100 AND <input type="checkbox"/> GEO 124
Geology 102 AND 109	<input type="checkbox"/> GLG 101 AND <input type="checkbox"/> GLG 102
Geology 150 AND 109	<input type="checkbox"/> GLG 160 AND <input type="checkbox"/> GLG 102
Physics 107 AND 108	<input type="checkbox"/> PHY 141 AND <input type="checkbox"/> PHY 142
Physics 109 AND 110	<input type="checkbox"/> PHY 201 AND <input type="checkbox"/> PHY 202

* A Curriculum Modification will be necessary if you choose this option. Please talk to your UWO academic advisor during your initial meeting to initiate this process.

Area #2 – One lab science course from a department different from the one chosen in Area #1. *Choose from the list below.*

Area #3 – One lab science course fulfilling option A, B, or C.

- Option A** – A lab science course from the same department as the course selected in Area #2, and that has the Area #2 course as a prerequisite (a second sequence). See Area #1list for possible sequences.
- Option B** – A lab science course from a third department. *Choose from the list below.*
- Option C** – A second course from the Level 2 math requirement in a different department. *See options above.*
 Course selected: _____

Natural Science Course Options (from Area #2 and Area #3, Option B)

UW Oshkosh Course	UW Colleges Equivalent	UW Oshkosh Course	UW Colleges Equivalent
Anthropology 202	ANT 105 (4 credits)	Geography 221 (122)	GEO 124 or GLG 251
Biology 104	BIO 191 (103/108)	Geology 102	GLG 101
Biology 105	BIO 101 (109)	Geology 109	GLG 102
Biology 211	BIO 280 (ZOO 234)	Geology 150	GLG 169
Biology 212	BIO 281 (PHS 235)	Geology 320	GLG 309
Biology 230	BIO 171 (ZOO 101)	Geog/Geol Elec. (NS)	<i>Any UWC LAB Science GEO/GLG course without a UWO equivalent; See TIS.</i>
Biology 231	BIO 162 (BOT 130)	Phys/Ast 103	AST 100 (4 cr.), 105 (4 cr.), 100 (3 cr.) AND 101, or 105 (3 cr.) AND 101
Biology 233	BIO 251 (BAC 201)	Phys/Ast 104	AST 106 (4 cr.) or 200
Biology 328	BIO 277 (ZOO 277)	Physics 107	PHY 141
Biology 343	BIO 211		
Biology Elective (NS)	<i>Any UWC LAB Science Biology course without a UWO equivalent; See TIS.</i>		

Chemistry 101	CHE 125
Chemistry 102	CHE 203 AND 211 <i>or</i> 204
Chemistry 105	CHE 145
Chemistry 106	CHE 155
Chemistry Elec. (NS)	CHE 124, 165
Geography 121	GEO 123 or MLG 100 (4 cr.)

Physics 108	PHY 142
Physics 109	PHY 201, 211, or 213
Physics 110	PHY 202 or 212
Physics 206	PHY 205
Phys/Ast Elective	PHY 107, 110, 115 (4 cr.)
Phys Sci 101	PHY 120

HUMANITIES / CULTURE (12 credits) ~ **BS requires 12 credits and must include English Literature (AAS)**

UW Oshkosh Course Requirement	UW Colleges Equivalent
English Literature (3 credits required) English 211 English 212 English 213 English 214 English 220 English 224 English 226 English 227 English 231 English 218 (HU/ES) English 247 English Elective	<input type="checkbox"/> ENG 260 <input type="checkbox"/> ENG 261 <input type="checkbox"/> ENG 262 <input type="checkbox"/> ENG 263 <input type="checkbox"/> ENG/AIS 242 <input type="checkbox"/> ENG 279 <input type="checkbox"/> ENG 276 <input type="checkbox"/> ENG 269 <input type="checkbox"/> ENG 277 <input type="checkbox"/> ENG 278 <input type="checkbox"/> ENG 280 <input type="checkbox"/> ENG 250, 251, 253, 255, 264, 265, 266, 267, 268, 270, 272, 273, 275, 281, 283, 284, 285, 286, 287, 288, SPA 237 (ES), 247 (ES), WOM 279
Take at least 1 course from two of the following three areas.	
Philosophy or Religious Studies Philosophy 101 Philosophy 104 Philosophy 109 Philosophy 207 Philosophy 215 Philosophy 225 Philosophy Elective Religious Studies Elective (NW/HU)	<input type="checkbox"/> PHI 210 or 211 <input type="checkbox"/> PHI 241 <input type="checkbox"/> PHI 101 <input type="checkbox"/> PHI/REL 261 <input type="checkbox"/> PHI 253 <input type="checkbox"/> PHI 205 <input type="checkbox"/> PHI 202, 226, 233, 237, 244, 248, 258, 259, 262, REL 203, WOM 202, 231 <input type="checkbox"/> PHI/REL 201
Art, Theatre, Music Art 105 Art 203 Art 209 Art 210 Art Elective Comm Elective Music 102 Music 219 Music Elective Theatre 161	<input type="checkbox"/> ART 180 <input type="checkbox"/> ART 100 <input type="checkbox"/> ART 181 <input type="checkbox"/> ART 183 <input type="checkbox"/> ART 175, 185, 188, 290 <input type="checkbox"/> CTA (COM) 150 or 218 <input type="checkbox"/> MUS 131 or 170 <input type="checkbox"/> MUS 173 or 285 <input type="checkbox"/> MUS 273, 278 (HU/ES) <input type="checkbox"/> CTA (COM) 130
Foreign Language Chinese 110 Chinese 111 Chinese 210 Chinese Elective French 110	<input type="checkbox"/> CHI 101 <input type="checkbox"/> CHI 105 <input type="checkbox"/> CHI 201 <input type="checkbox"/> CHI 205 <input type="checkbox"/> FRE 101 <i>or</i> FRE 103 + 104

French 111	<input type="checkbox"/> FRE 105 <i>or</i> FRE 106 + 107
French 203	<input type="checkbox"/> FRE 201 <i>or</i> FRE 203 + 204
French 204	<input type="checkbox"/> FRE 205 <i>or</i> FRE 206 + 207
French 280	<input type="checkbox"/> FRE 215 <i>or</i> 216
French Elective (HU)	<input type="checkbox"/> FRE 277
German 110	<input type="checkbox"/> GER 101 <i>or</i> GER 103 + 104
German 111	<input type="checkbox"/> GER 105 <i>or</i> GER 106 + 107
German 203	<input type="checkbox"/> GER 201 <i>or</i> GER 203 + 204
German 204	<input type="checkbox"/> GER 205
German 207	<input type="checkbox"/> GER 215
German Elective	<input type="checkbox"/> GER277
Foreign Language Elective (HU)	<input type="checkbox"/> ITA 103, 104
Spanish 110	<input type="checkbox"/> SPA 101 <i>or</i> SPA 103 + 104
Spanish 111	<input type="checkbox"/> SPA 105 <i>or</i> SPA 106 + 107
Spanish 203	<input type="checkbox"/> SPA 201 <i>or</i> SPA 203 + 204
Spanish 204	<input type="checkbox"/> SPA 205 <i>or</i> SPA 206 + 207
Spanish Elective (HU)	<input type="checkbox"/> SPA 220, 236, 277

SOCIAL SCIENCE / SOCIETY (12 credits) ~ BS requires 12 credits and must include History (AAS)

Complete 9 credits in at least one area other than history. *Choose from the departments below.*

UW Oshkosh Course Requirement	UW Colleges Equivalent
History	<input type="checkbox"/> Any UW Colleges HIS course: _____

1. _____ 2. _____ 3. _____

UW Oshkosh Course Requirement	UW Colleges Equivalent
Anthropology	ANT (Excluding ANT 105)
Economics	ECO (Including EGR 282)
Environmental Studies	BIO 190 (107)
Geography	GEO (Excluding Natural Sci. courses listed above)
Political Science	POL
Psychology	PSY (Excluding PSY 210 and 254)
Sociology	SOC
Women's Studies	WOM

ETHNIC STUDIES (3 credits) – This requirement is fulfilled with completion of AAS

A course that fulfills Ethnic Studies can also be used to fulfill an above requirement if designated as such.

UW Oshkosh Course Requirement	UW Colleges Equivalent
Ethnic Studies	<input type="checkbox"/> Any UW Colleges ES course: _____

GLOBAL CITIZENSHIP (3 credits) ~ This requirement is fulfilled with completion of AAS

Choose one of the courses below. A course that fulfills Global Citizenship can also be used to fulfill a Social Science or Humanities requirement if designated as such.

UW Oshkosh Course Requirement	UW Colleges Equivalent
Anthropology 204 (GC/SS)	<input type="checkbox"/> ANTHRO 104
English 227 (GC/HU)	<input type="checkbox"/> ENG 269
Geography 102 (GC/SS)	<input type="checkbox"/> GEO 110
History 102 (GC/SS)	<input type="checkbox"/> HIST 106
Political Science 101 (GC/SS)	<input type="checkbox"/> POL SCI 101
Political Science 115(GC/SS)	<input type="checkbox"/> POL SCI 175

THE MAJOR

Core Courses:

UW Oshkosh	UW Colleges
PHYS 109	<input type="checkbox"/> PHY 201, 211 <i>or</i> 213
PHYS 110	<input type="checkbox"/> PHY 202 <i>or</i> 212
MATH 171	<input type="checkbox"/> MAT 221
MATH 172	<input type="checkbox"/> MAT 222
MATH 273	<input type="checkbox"/> MAT 223 <i>or</i> 234
MATH 371	<input type="checkbox"/> MAT 271

NOTES

University Studies Program (USP)

The University Studies Program (USP) is the new definition of general education at UW Oshkosh designed to help students reap the maximum benefits from their college education. Transfer students will participate in USP at varying degrees based upon the number of credits transferred into the university.

- 0-14 Credits – You're still considered a first-year student and will be able to participate in all USP Quest and Connect courses. Any courses you've taken previously will continue to transfer to UW Oshkosh, but the names of courses or course categories may differ slightly.
- 15-59 Credits – To help you get situated on campus you'll engage in a Transition Year Experience. This will help you learn what UWO has to offer, show you what resources are available and introduce you to new people.
- 60+ Credits – Because you have more than 60 credits, you are not required to take the Quest sequence of courses or the Transition Year Experience. Admissions will determine which courses transfer and identify any courses you may need to complete.

If you've already completed an approved associate degree, your USP requirements are automatically fulfilled.

Please note that in addition to USP requirements, you are responsible for specific requirements related to your major, minor (if any) and degree. Transfer counselors or academic advisers will assist you along the way in understanding these requirements.

Other Notes

- ✓ In a few instances, courses are designated differently at the UW Colleges than they are at UWO in terms of general education (i.e. HU becomes SS in transfer). In these instances the student can often choose to accept the UWO designation, or have the UWC designation honored. Changes cannot be made until after UWO admission, and it is always best to discuss these changes with an academic advisor first.
- ✓ The official UW Oshkosh GPA will be calculated using only UW Oshkosh credits earned. Credits transferred to UW Oshkosh are recognized, but the grades are not included in the official UW Oshkosh GPA. For various university-level honors designations students will have to earn at least 60 credits at UW Oshkosh and only those Oshkosh grades are considered. The official transcript will display the official UW Oshkosh GPA, UW Oshkosh course work and transfer course grades that will not be included in the official UW Oshkosh GPA.
- ✓ The UW Colleges made changes to several departments, effective January 1, 2012. The current departments are listed on this guide with the previous departments and course numbers in ().

ADDITIONAL RESOURCES

UW Oshkosh Bulletin: <http://www.uwosh.edu/registrar/undergradbulletins/2015-2017>

Four-Year Planning Sheet: <http://www.uwosh.edu/home/future-students/undergraduate/academics/four-year-degree-programs>

Department Web Site: <http://www.phys.uwosh.edu>

Transfer Admissions Counselors

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