

UW-Richland offers students an opportunity to earn an AA&S Degree with a specific *Emphasis*. An Emphasis is a concentration of coursework in a given discipline, or area of study. Completing your AA&S Degree with an area of Emphasis is not a requirement; rather, it is an option for you to enhance your overall associate degree. The emphasis areas are in addition to certificate programs in Business & Environmental Studies which have been available to UWR students for a number of years; a certificate program is comparable to the emphasis areas, although completion of a certificate does not require completion of the AA&S Degree.

19 UW-Richland Emphasis Areas		2 UW-Richland Certificate Programs
Anthropology	History	Business Environmental Studies
Biological Sciences	Literature	
Business	Mathematics	
Computer Science	Philosophy	
Chemistry	Pre-Nursing	
Education	Psychology	
Engineering	Sociology	
Environmental Studies	Theatre Arts	
Geosciences	Writing	
Health Science		

AA&S Degree with emphasis

Requirements for the AA&S Degree with Emphasis in Anthropology

9-10 credits required, including:

ANT 100, General Anthropology	3 credits
<i>Elective courses:</i> Any TWO Other Anthropology Courses	6-7 credits

Requirements for the AA&S Degree with Emphasis in Biological Science

12-20 credits required, including:

<i>4 courses required—3 with lab component</i>	
Any BAC, BIO, BOT, NAT, PHS or ZOO Courses	3-5 credits

Requirements for the AA&S Degree with Emphasis in Business

22 credits required, including:

BUS 210, Business Communication	3 credits
BUS 201, Introductory Accounting	4 credits
BUS 204, Managerial Accounting	3 credits
ECO 203, Economics—Macro	3 credits
ECO 204, Economics—Micro	3 credits
BUS 230, Intro to Management Information Systems (<i>Offered Online</i>)	3 credits
BUS/ECO 243, Economics & Business Statistics (<i>Offered Online</i>)	3 credits

Requirements for the AA&S Degree with Emphasis in Chemistry

16 credits required, including:

CHE 145	General Chemistry I	5 credits
CHE 155	General Chemistry II	5 credits
CHE 343	Organic Chemistry I	3 credits
CHE 363	Organic Chemistry II	3 credits

Requirements for the AA&S Degree with Emphasis in Computer Science

15-18 credits required, including:

CPS 245, Computer Science I: Object-Oriented Programming	4 credits
CPS 255, Computer Science II: Objects & Data Abstraction	3 credits
CPS 265, Computer Science III: Algorithms & Data Structures	3 credits

At least one course from:

MAT 211, Calculus	4-5 credits
MAT 221, Calculus & Analytic Geometry I	5 credits
MAT 222, Calculus & Analytic Geometry I	5 credits
MAT 230, Discrete Mathematics	3 credits

At least two credits from:

CPS 110, Intro to Computer Science (BASIC)	3 credits
CPS 130, Intro to Programming (BASIC)	3 credits
CPS 139, Web Page Development	2 credits
CPS 149, Fundamentals of Web Programming	2 credits
CPS 240, Advanced Visual Basic	3 credits
CPS 260, Programming in Assembly Language	3 credits
CPS 291, Special Topics	1-3 credits
CPS 299, Independent Study	1-3 credits

Requirements for the AA&S Degree with Emphasis in Education

15-17 credits required, including:

EDU 201, Concepts, Issues, and Field Experience in Education	3 credits
EDU 230, Educational Psychology	3 credits
EDU 300, The Exceptional Individual	3 credits
PSY 202, Introduction to Psychology	3 credits OR
PSY 201, Introduction to Psychology	4 credits
PSY 250, Life Span Developmental Psychology	3 credits OR
PSY 360, Psychology of Childhood & Adolescence	3 credits

Requirements for the AA&S Degree with Emphasis in Engineering

16-20 credits required, including:

EGR 105, Engineering Fundamentals	3 credits
EGR 282, Engineering Economics	3 credits
MEC 201, Statics	3 credits
MEC 202, Dynamics	3 credits

Electrical majors: Choose ONE of the courses listed:

CPS 216, Problem Solving & Programming in C++	4 credits
CPS 245, Computer Science I: Object-Oriented Programming	4 credits

General Majors: Choose TWO of the courses listed:

EGR 263, Engineering Thermodynamics	3 credits
GRA 110, Engineering Graphics w/Computer Aided Drafting	3 credits
MEC 203, Strength of Materials	3-5 credits

Requirements for the AA&S Degree with Emphasis in Environmental Studies

13-19 credits required, including:

Choose ONE of the following:

ZOO 101, Animal Biology	5 credits
BOT 130, General Botany	5 credits
CHE 123, Chemistry & Society	3 credits
CHE 124, Applied Chemistry & Society	4 credits
CHE 125, Intro Chemistry	5 credits
GEO 123, Physical Geography: Weather & Climate	4-5 credits

Choose ONE of the following:

BIO 103, Human Environmental Biology	3-4 credits
BIO 107, Biological Aspects/Conservation of Natural Resources	3 credits
GEO 350, Environmental Conservation	3 credits
GLG 169, Environmental Geology	4-5 credits

Choose ONE of the following:

ENG 285, Literature of Nature	3 credits
PHI 244, Environmental Ethics	3 credits
SOC 355, Sociology of the Environment	3 credits

Choose ONE of the following:

MAT 117, Elementary Statistics	3 credits
PSY 202, Intro Psychology	3 credits

Choose ONE of the following:

BOT 299, Reading & Research in Botany	3 credits
ZOO 299, Reading & Research in Zoology	1-3 credits

Requirements for the AA&S Degree with Emphasis in Geosciences

9-13 credits required, including:

GEO 125, Physical Geography**	4-5 credits OR
GLG 101, Physical Geology	5 credits

NOTES: To achieve a minimum of 9 credits required for this emphasis, at least one of the courses taken must be for 5 credits.

GEO 123, Physical Geography: Weather & Climate and GEO 124, Physical Geography: Landforms may be used in place of GEO 125.

If GEO 123 and GEO 124 are substituted for GEO 125, the GEO 125 may not be used to fulfill the "Any other course" elective requirement, and if GEO 125 is used, then neither GEO 123 nor 124 may be used to fulfill the "Any other course" requirement.

Requirements for the AA&S Degree with Emphasis in Health Science

16-20 credits required, including:

BIO 109, Concepts of Biology	5 credits OR
ZOO 101, Animal Biology	5 credits
ZOO 234, Human Anatomy	3 credits OR
PHS XXX, Any Physiology Course	3-5 credits
CHE 125, Intro Chemistry	5 credits OR
CHE 145, General Chemistry I	5 credits
MAT 117, Elementary Statistics	3 credits OR
PSY 202, Intro Psychology	3 credits OR
BAC 201, General Survey of Microbiology	4-5 credits

Requirements for the AA&S Degree with Emphasis in History

15 credits required, including:

HIS 101, History of the United States	3 credits
HIS 102, History of the United States	3 credits
HIS 105, History of Western Civilization	3 credits OR
HIS 161, World History to 1500	3 credits
HIS 106, History of Western Civilization	3 credits OR
HIS 162, World History since 1500	
HIS 2XX: Any 200-level History Course	3 credits

Requirements for the AA&S Degree with Emphasis in Literature

12 credits required, including:

ENG 250, Introduction to Literature	3 credits
ENG 260, English Literature before 1798	3 credits
ENG 261, English Literature after 1798	3 credits
ENG 262, American Literature before 1865	3 credits
ENG 263, American Literature after 1865	3 credits
ENG 278, Multicultural Literature in America	3 credits
ENG 280, Introduction to Shakespeare	3 credits

Requirements for the AA&S Degree with Emphasis in Mathematics

16-20 credits required, including:

MAT 221, Calculus & Analytic Geometry I	5 credits
MAT 222, Calculus & Analytic Geometry II	5 credits
MAT 223, Calculus & Analytic Geometry III	5 credits OR
MAT 234, Calculus of Several Variables	3 credits

Elective Courses (Student/Advisor choice—total of 3-5 credits)

MAT 117, Elementary Statistics	3 credits OR
MAT 210, Topics in Finite Math	3-4 credits OR
MAT 224, Linear Math	4 credits OR
MAT 230, Discrete Mathematics	3 credits OR
MAT 240, Statistical Analysis	3 credits OR
MAT 262, Linear Algebra	3 credits OR
MAT 271, Ordinary Differential Equations	3 credits OR
PHY 201/202, General Physics	5 credits OR
CPS 245, or 255, or 265	3 credits OR
EGR 263, Engineering Thermodynamics	3 credits OR
MEC 202 or 203	3 credits OR

Note: MAT 117 is not recommended for students who intend to major in mathematics.

Requirements for the AA&S Degree with Emphasis in Philosophy

15 credits required, including:

9 credits required from these options:

PHI 101, Introduction to Philosophy	3 credits
PHI 211, Elementary Logic	3 credits
PHI 241, Ethics	3 credits
PHI 244, Environmental Ethics	3 credits

At least 6 credits from student/advisor choice courses:

PHI 258, Human Nature, Religion & Society	3 credits
PHI 242, Social & Political Philosophy	3 credits
PHI XXX, Any Other Philosophy Course	

Requirements for the AA&S Degree with Emphasis in Pre-Nursing

16-18 credits required, including:

Required courses include:

BAC 201, General Survey of Microbiology	4-5 credits
PHS 202, Anatomy & Physiology	4 credits
PHS 203, Anatomy & Physiology	4 credits
<i>OR</i>	
BAC 201, General Survey of Microbiology	4-5 credits
ZOO 234, Human Anatomy	3 credits
PHS 235, Human Physiology	5 credits

Elective courses (highly recommended)

Choose from the following to complete total credits needed for the emphasis:

CHE 125, Intro Chemistry	5 credits
CHE 203, Survey of Biochemistry	3 credits
CHE 211, Biochemistry Lab	1 credit
BIO 109, Concepts of Biology	5 credits
ZOO 101, Animal Biology	5 credits

Requirements for the AA&S Degree with Emphasis in Psychology:

12-14 credits required, including:

PSY 201, Introductory Psychology	4 credits OR
PSY 202, Introductory Psychology	3 credits
PSY 210, Statistical Methods in Psychology	3 credits
PSY 360, Psychology of Childhood/Adolescence	3 credits OR
PSY 250, Life Span Developmental Psychology	3 credits
BIO XXX, Any Other Human Biology Course	3-4 credits

Requirements for the AA&S Degree with Emphasis in Theatre Arts

15 credits required, including:

Completion of the following courses with a grade of C or higher will fulfill the requirements for this emphasis.*

COM 130, Introduction to Theatre	3 credits
COM 131, Theatre Laboratory	3 credits**
COM 232, Introduction to Acting	3 credits OR
COM 234, Introduction to Stagecraft	3 credits

Elective Courses:

Choose from the following to complete total credits needed for the emphasis:

COM 131, Theatre Laboratory	1-3 credits**
COM 150, Introduction to Film	3 credits
COM 230, Literature and Performance	3 credits
COM 298, Topics in Speech and Dramatic Arts	3 credits
COM 299, Independent Studies (Theatre Focus)	3 credits
COM 349, Children's Theatre Production	3 credits
ENG 251, Introduction to Dramatic Literature	3 credits
ENG 280, Introduction to Shakespeare	3 credits
MUS 107, Vocal Techniques	3 credits
ART 101, Introduction to Drawing	3 credits
ART 112, Three-Dimensional Design	3 credits

**Students should be aware that the Theatre Arts Emphasis will give them the basic knowledge and individualized experience to successfully prepare them for a major/minor in Theatre Arts, but they will be required to take additional lower division courses in Theatre when they transfer.*

***A minimum of 3 credits of COM 131 is required. An additional 1 to 3 credits can be taken of COM 131 to count towards the emphasis.*

Requirements for the AA&S Degree with Emphasis in Sociology

9 credits required, including:

SOC 101, Introduction to Sociology	3 credits
SOC 234, Sociology of Race & Ethnicity	3 credits

Elective Course:

Any Other Sociology Course	3 credits
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Requirements for the AA&S Degree with Emphasis in Writing:

12 credits required, including:

ENG 201, Intermediate Composition	3 credits
ENG 203, Creative Writing I	3 credits
ENG 204, Creative Writing II	3 credits
ENG 210/Business 210, Business Communications	3 credits

Other course possibilities may be available via online programming. Consult with an advisor.

Certificate Programs

Requirements for the Business Certificate Program:

25-26 credits required, including:

Note: A maximum of 3 transfer credits may be applied to this certificate program.

Business & Computer Science Course Requirements—

BUS 101, Intro to Business	3 credits OR
BUS 110, Personal Finance	3 credits OR
BUS 210, Business Communication	3 credits
BUS 201, Introductory Accounting	4 credits
BUS 202, Intermediate Accounting	3 credits OR
BUS 204, Managerial Accounting	3 credits
BUS 230, Intro to MIS	3 credits OR
CPS 106, 107 & 108	3 credits

Course Requirements: Economics & Mathematics

ECO 203, Economics—Macro	3 credits
ECO 204, Economics—Micro	3 credits
ECO 243, Economics & Business Statistics	3 credits OR
MAT 117, Elementary Statistics	3 credits
MAT 210, 211, or higher	3-5 credits

Requirements for the Environmental Studies Certificate Program:

17 credits required, including:

Students may select from the options in paired listings; others are required.

BIO 107, Biological Aspects of Conservation or Natural Resources	3 credits OR
GEO 350, Environmental Conservation	3 credits
NAT 250, Introduction to Fish, Forest and Wildlife Resources	4 credits OR
BIO 250, Principles of Ecology	4 credits
GLG 169, Environmental Geology	4-5 credits OR
GEO 125, Physical Geography	4 credits OR

GEO 130, Human Impact on the Environment	3-4 credits
PHI 244, Environmental Ethics	3 credits
ECO 101, Introduction to Economics	3 credits OR
ECO 204, Economics—Micro	3 credits

Updated 2.6.12