



Life and Health Science Division

Faculty

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Associate of Science Degree

Allied Health
Athletic Training
Biology
Natural Resource Biology
Outdoor Education
Physical Education
Pre-Baccalaureate Nursing
Pre-Occupational Therapy
Pre-Optometry
Pre-Pharmacy
Pre-Physical Therapy
Pre-Professional Sciences

Associate of Applied Science Degree

Nursing

Northwest College Comprehensive Skills Certificate

Practical Nursing

Northwest College Skills Certificate

Assistant Coach
Challenge Course Facilitation
Head Coach
Nursing Assistant

Recent years have witnessed an unparalleled expansion of knowledge in all facets of human endeavor. The area of life and health science has been well represented in this expansion and today occupies an extremely active segment of the scientific community. Indeed, the pace has been so rapid that entire new fields now provide opportunities nonexistent a few years ago.

It is imperative today that all students gain understanding and appreciation of the earth on which we live and the life it supports. Understanding scientific reasoning is crucial to the development of a student's critical thinking capacity. Students also need wellness education. At a time when technology has increased the pace of life, knowing how to maintain physical health and well being becomes increasingly important. All of this places heavy responsibility on institutions of learning to provide current and relevant experiences so that each generation will be able to handle successfully the problems it will inherit. The Life and Health Science Division at Northwest College strives to provide this experience.

Biology

The study of biology includes courses designed to help students acquaint themselves with the structure and function of living organisms and to appreciate some of the ecological relationships existing in the world of life. The biology courses required in this program parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a "C-" or better to meet program requirements. Recommended courses are designed to aid students in completing their four-year degrees. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE BIOLOGY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Eight hours of Science are fulfilled by taking Core Courses

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I.....	4
BIOL 2020—General Biology II	4
BIOL 2395—Biological Research (Capstone Course).....	1
TOTAL	9

Core Electives

Students must take three courses from the following list of approved courses.

Number and Title	Credits
BIOL 2023—Biology of Plants and Fungi....	4
BIOL 2200—Genetics (offered alternate years).....	4
BIOL 2400—Ecology	3
BIOL 2410—Field Ecology Lab.....	1
BOT 2050—Taxonomy of Flowering Plants	4
MOLB 2210—General Microbiology.....	4
ZOO 2400—Vertebrate Natural History.....	4

Transfer and General Electives selected in consultation with advisor16-20

Recommended Transfer and General Electives

Track I and Track II courses are designed to fulfill degree requirements at different four-year institutions.

Track I

Students seeking a degree more advanced than a Bachelor of Science should pursue Track I.

Number and Title	Credits
CHEM 1020—General Chemistry I	5
CHEM 1030—General Chemistry II.....	4
CHEM 2320—Organic Chemistry I.....	4
CHEM 2340—Organic Chemistry II.....	4
MATH 1450—Precalculus Algebra and Trigonometry.....	5
MATH 2345—Survey of Calculus.....	5
PHYS 1110—General Physics I.....	4
PHYS 1120—General Physics II	4
STAT 2050—Fundamentals of Statistics.....	3

Track II

Students stopping at an associate of science or bachelor of science degree should follow Track II.

Number and Title	Credits
CHEM 1000—Introduction to Chemistry ...	5
CHEM 2300—Introduction to Organic Chemistry	4
MATH 1400—College Algebra	4
PHYS 1110—General Physics I.....	4
STAT 2050—Fundamentals of Statistics.....	3

Recommended General Electives for either Track

Number and Title	Credits
CO/M 1010—Public Speaking	3
ENGL 2017—Introduction to Research.....	3
PHIL 2420—Logic I: Critical Thinking	3

MINIMUM CREDITS FOR DEGREE = 64

Biology Education

For secondary education, to facilitate transfer to a four-year college as a junior, students planning to become middle school or high school biology teachers are encouraged to complete programs in both Secondary Education and in the subject(s) they plan to teach. Consult your advisor every semester when selecting courses.

Natural Resource Biology

This program includes areas in **Environmental Biology, Forestry, Resource Management, and Wildlife Management**. The program of Natural Resource Biology provides coursework concerning ecological communities, plant and animal studies, and the Geographic Information System. The courses required in this program parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a “C-” or better to meet program requirements. Transfer courses are designed to aid students in completing their four-year degrees. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE NATURAL RESOURCE BIOLOGY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Eight hours of Science will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I.....	4
BIOL 2020—General Biology II	4
BIOL 2310—Introduction to Geographic Information Systems.....	3
BIOL 2400—Ecology	3
BIOL 2410—Field Ecology Lab.....	1
BIOL 2395—Biological Research (Capstone Course).....	1
TOTAL	16

Core Electives

Students must take two courses from the following list of approved courses. Forestry students should take BOT 2050, Taxonomy of Flowering Plants and BOT 2100, Forest Management. Wildlife Management students should take ZOO 2400, Vertebrate Natural History and ZOO 2450, Wildlife Management.

Number and Title	Credits
BIOL 1080—Environmental Science	3
BIOL 2023—Biology of Plants and Fungi....	4
BOT 2050—Taxonomy of Flowering Plants 4	
BOT 2100—Forest Management	3
ZOO 2400—Vertebrate Natural History.....	4
ZOO 2450—Wildlife Management.....	3

Transfer and General Electives selected in consultation with advisor13-17

Recommended Transfer and General Electives

Track I and Track II courses are designed to fulfill degree requirements at different four-year institutions.

Track I

Students pursuing academic or research careers in Natural Resource Biology should follow Track I.

Number and Title	Credits
BIOL 2023—Biology of Plants and Fungi....	4
CHEM 1020—General Chemistry I	5
CHEM 1030—General Chemistry II.....	4
CHEM 2320—Organic Chemistry I.....	4
CHEM 2340—Organic Chemistry II.....	4
MATH 1450—Precalculus Algebra and Trigonometry.....	5

MATH 2345—Survey of Calculus.....	5
PHYS 1110—General Physics I.....	4
PHYS 1120—General Physics II.....	4
STAT 2050—Fundamentals of Statistics.....	3

Track II

Students pursuing careers in the management or administration of natural resources should follow Track II.

Number and Title	Credits
BIOL 2023—Biology of Plants and Fungi....	4
CHEM 1000—Introduction to Chemistry ...	5
CHEM 2300—Introduction to Organic Chemistry.....	4
MATH 1400—College Algebra.....	4
PHYS 1110—General Physics I.....	4
STAT 2050—Fundamentals of Statistics.....	3

General Electives for either Track

AECL 2010—Ecological Web: Soil.....	4
CO/M 1010—Public Speaking.....	3
PHIL 2420—Logic I: Critical Thinking.....	3
POLS 2410—Introduction to Public Administration.....	3
RGMG 2000—Principles of Range Management.....	3

MINIMUM CREDITS FOR DEGREE = 64

Pre-Occupational Therapy and Pre-Physical Therapy

The courses required for these programs parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a “C-” or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE PRE-OCCUPATIONAL THERAPY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Eight hours of Science and three hours of Social Science are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I.....	4
CHEM 1000—Introduction to Chemistry ...	5
or	
CHEM 1020—General Chemistry I.....	5
PSYC 1000—General Psychology.....	4
or	
SOC 1000—Sociological Principles.....	3
ZOO 2010—Human Anatomy and Physiology I.....	4
ZOO 2020—Human Anatomy and Physiology II.....	4
BIOL 2395—Biological Research (Capstone Course).....	1
TOTAL 21-22	

Transfer and General Electives selected in consultation with advisor.....16-20

Recommended Transfer and General Electives

Number and Title	Credits
CO/M 1010—Public Speaking.....	3
ENGL 2017—Introduction to Research.....	3
MATH 1400—College Algebra.....	4
NRST 1200—Medical Terminology.....	1
STAT 2050—Fundamentals of Statistics.....	3

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF SCIENCE PRE-PHYSICAL THERAPY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Four hours of Science are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I.....	4
BIOL 2020—General Biology II.....	4
MOLB 2210—General Microbiology.....	4
ZOO 2010—Human Anatomy and Physiology I.....	4
ZOO 2020—Human Anatomy and Physiology II.....	4
BIOL 2395—Biological Research (Capstone Course).....	1
TOTAL 21	

Transfer and General Electives selected in consultation with advisor.....16-19

Recommended Transfer and General Electives

Students should choose from these courses which are designed to fulfill common requirements at various transfer institutions. Students should consult with their advisor and the appropriate transfer college catalog.

CHEM 1020—General Chemistry I.....	5
CHEM 1030—General Chemistry II.....	4
CO/M 1010—Public Speaking.....	3
ENGL 2017—Introduction to Research.....	3
MATH 1450—Precalculus Algebra and Trigonometry.....	5
MATH 2345—Survey of Calculus.....	5
PHIL 2420—Logic I: Critical Thinking.....	3
PHYS 1110—General Physics I.....	4
PHYS 1120—General Physics II.....	4
PSYC 1000—General Psychology.....	4
STAT 2050—Fundamentals of Statistics.....	4

MINIMUM CREDITS FOR DEGREE = 64

Pre-Optometry

The courses required in this program parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a “C-” or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE PRE-OPTOMETRY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Four hours of Science are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I.....	4
BIOL 2020—General Biology II.....	4
BIOL 2023—Biology of Plants and Fungi....	4

CHEM 1020—General Chemistry I	5
or	
CHEM 1000—Introduction to Chemistry ...	4
ZOO 2010—Human Anatomy and Physiology I	4
ZOO 2020—Human Anatomy and Physiology II	4
BIOL 2395—Biological Research (Capstone Course).....	1
TOTAL 21-22	

Transfer and General Electives selected in consultation with advisor15-19

Recommended Transfer and General Electives

Number and Title	Credits
CHEM 1030—General Chemistry II.....	4
CHEM 2300—Introduction to Organic Chemistry.....	4
or	
CHEM 2320—Organic Chemistry I.....	4
CHEM 2340—Organic Chemistry II.....	4
CO/M 1010—Public Speaking.....	3
ENGL 2017—Introduction to Research.....	3
MATH 1450—Precalculus Algebra and Trigonometry.....	5
MATH 2345—Survey of Calculus.....	5
STAT 2050—Fundamentals of Statistics.....	3
PHIL 2420—Logic I: Critical Thinking.....	3
PHYS 1110—General Physics I.....	4
PHYS 1120—General Physics II.....	4
PSYC 1000—General Psychology.....	4

MINIMUM CREDITS FOR DEGREE = 64

Pre-Pharmacy

The courses required in this program parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a “C-” or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE PRE-PHARMACY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Four hours of Science are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I.....	4
BIOL 2020—General Biology II.....	4
CHEM 1020—General Chemistry I.....	5
CHEM 1030—General Chemistry II.....	4
MOLB 2210—General Microbiology.....	4
BIOL 2395—Biological Research (Capstone Course).....	1
TOTAL 22	

Transfer and General Electives selected in consultation with advisor16-19

Recommended Transfer and General Electives

Number and Title	Credits
CHEM 2320—Organic Chemistry I.....	4
CHEM 2340—Organic Chemistry II.....	4
CO/M 1010—Public Speaking.....	3
ENGL 2017—Introduction to Research.....	3
MATH 1450—Precalculus Algebra and Trigonometry.....	5
MATH 2345—Survey of Calculus.....	5
PHIL 2420—Logic I: Critical Thinking.....	3
PHYS 1110—General Physics I.....	4
STAT 2050—Fundamentals of Statistics.....	3

MINIMUM CREDITS FOR DEGREE = 64

Pre-Professional Sciences

This program includes areas in **Pre-Dentistry, Pre-Medicine, and Pre-Veterinary Medicine**. The courses required in this program parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a “C-” or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE PRE-DENTISTRY, PRE-MEDICINE, and PRE-VETERINARY MEDICINE

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Eight hours of Science are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I.....	4
BIOL 2020—General Biology II.....	4
CHEM 1020—General Chemistry I.....	5
CHEM 1030—General Chemistry II.....	4
BIOL 2395—Biological Research (Capstone Course).....	1
TOTAL 18	

Transfer and General Electives selected in consultation with advisor16-19

Recommended Transfer and General Electives

Number and Title	Credits
BIOL 2023—Biology of Plants and Fungi....	4
BIOL 2200—Genetics (offered alternate years).....	4
CHEM 2320—Organic Chemistry I.....	4
CHEM 2340—Organic Chemistry II.....	4
CO/M 1010—Public Speaking.....	3
ENGL 2017—Introduction to Research.....	3
MATH 1450—Precalculus Algebra and Trigonometry.....	5
MATH 2345—Survey of Calculus.....	5
MOLB 2210—General Microbiology.....	4
PHIL 2420—Logic I: Critical Thinking.....	3
PHYS 1110—General Physics I.....	4
PHYS 1120—General Physics II.....	4
ZOO 2400—Vertebrate Natural History.....	4

MINIMUM CREDITS FOR DEGREE = 64

Athletic Training

This program provides a solid foundation for students planning a career as an athletic trainer. It prepares students to transfer to institutions offering bachelor’s degrees in athletic training. Students must successfully complete core courses with a “C-” or better to meet program requirements. At the beginning of the spring semester of their sophomore year, students must make application for admission to the professional Exercise and Sport Science-Athletic

Training Option at the University of Wyoming and/or other four-year institutions with athletic training programs.

ASSOCIATE OF SCIENCE ATHLETIC TRAINING

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Core Courses

Number and Title	Credits
ZOO 2010—Human Anatomy and Physiology	4
ZOO 2020—Human Anatomy and Physiology II	4
HLED 1225—First Aid/CPR	2
PEPR 1005—Introduction to Physical Education and Sport.....	2
KIN 1052—Introduction to Athletic Training	3
KIN 1058—Emergency Management of Athletic Injury/Illness	3
KIN 2068—Athletic Training Clinical I.....	1
KIN 2057—Assessment and Evaluation of Athletic Injury/Illness I	3
KIN 2058—Assessment and Evaluation of Athletic Injury/Illness II (Capstone Course).....	3
KIN 2078—Athletic Training Clinical II	1
TOTAL	26
Transfer and General Electives selected in consultation with advisor	1-7

MINIMUM CREDITS FOR DEGREE = 64

Outdoor Education

This program provides a solid foundation for students planning careers teaching in a variety of outdoor adventure settings. This program also prepares students for transfer to institutions offering a bachelor's degree in the areas of outdoor recreation leadership, adventure education, and allied fields. Students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE OUTDOOR EDUCATION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Two hours of Wellness are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
HLED 1225—Standard First Aid and CPR	2
OEPR 1100—Introduction to Adventure Education	2
OEPR 1550—Introduction to Recreation ...	3
OEPR 2100—Outdoor Education Practicum.....	2
OEPR 2200—Outdoor Programming and Administration (Capstone Course)	3
OEPR 2250—Outdoor Leadership.....	3
TOTAL	15

Core Electives

Students must complete three of the following courses.

Number and Title	Credits
CO/M 2120—Small Group Communication	3
OEAC 1100—Outdoor Living Skills	2
OEAC 1170—Introduction to Mountaineering	2
OEPR 1250—River Guide Skills.....	2
OEPR 1620—Challenge Course Facilitation	2
OEPR 1720—Advanced Rock Climbing.....	2
OEPR 2110/EDCI 2110—NOLS Rocky Mountain Outdoor Education.....	4
TOTAL	6-9

Transfer and General Electives selected in consultation with advisor

Transfer and General Electives

Number and Title	Credits
ANTH 1100—Physical Anthropology	3
ANTH 1105—Physical Anthropology Lab..	1
ANTH 1300—Introduction to Archaeology	3
ASTR 1050—Survey of Astronomy.....	4
BIOL 1080—Environmental Science	3
BIOL 2400—Ecology	3
BOT 2050—Taxonomy of Flowering Plants..	4
EDFD 2100—Educational Psychology.....	3
FCSC 1141—Principles of Nutrition.....	3
GEOL 1030—Geology of Northern Wyoming	3
GEOL 1035—Geology of Yellowstone National Park.....	1
GEOL 1100—Physical Geology.....	4
GEOL 1200—Historical Geology.....	4
OEPR 1200—Winter Outdoor Survival.....	1

PEPR 1005—Introduction to Physical Education	2
PHTO 1550—Outdoor Photography Seminar.....	2
PSYC 1000—General Psychology.....	4

MINIMUM CREDITS FOR DEGREE = 64

NORTHWEST COLLEGE SKILLS CERTIFICATE CHALLENGE COURSE FACILITATION

This certificate provides the student with a solid foundation in the principles and theories of experiential/adventure education giving them the background and knowledge necessary to begin work as a facilitator.

Number and Title	Credits
OEPR 1100—Introduction to Adventure Education	2
OEPR 1620—Challenge Course Facilitation	2
HLED 1225—Standard First Aid and CPR	2

TOTAL CREDITS FOR CERTIFICATE = 6

Physical Education

This program provides a solid foundation for students planning careers in physical education, health education, teacher education, and/or coaching. It prepares students for transfer to institutions offering bachelor's degrees in physical education. Students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

Health Education

For secondary education, to facilitate transfer to a four-year college as a junior, students planning to become middle school or high school physical education teachers are encouraged to complete programs in both Secondary Education and in the subject(s) they plan to teach. Consult your advisor every semester when selecting courses.

**ASSOCIATE OF SCIENCE
PHYSICAL EDUCATION**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Two hours of Wellness will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
HLED 1006—Personal Health.....	3
HLED 1225—Standard First Aid and CPR. 2 or PEPR 1040—Sport First Aid.....	2
OEP 1100—Introduction to Adventure Education	2
PEPR 1005—Introduction to Physical Education	2
PEPR 1025—Movement Core II.....	2
PEPR 2000—Movement Core III	2
PEPR 2069—History and Philosophy of Sport.....	3
PEPR 2200—Physical Education, Health, and Coaching Practicum (Capstone Course)2-4 and	

Students must complete three of the following half-credit courses.

- PEAC 1050—Beginning Tennis
- PEAC 1255—Beginning Golf
- PEAC 1257—Beginning Racquetball
- PEAC 1265—Floor Hockey
- PEAC 1273—Weight Training/Conditioning
and

Students must complete one of the following half-credit courses.

- PEAC 1254—Beginning Snowboarding
- PEAC 1258—Beginning Skiing
- PEAC 1259—Beginning Cross-Country Skiing
- PEAC 1285—Kayaking
- PEAC 1286—Spelunking
- PEAC 1287—Rock Climbing
- PEAC 1560—Beginning Orienteering
- PEAC 1600—Ice Climbing

TOTAL 20-22

**Recommended Transfer and
General Electives**

Number and Title	Credits
FCSC 1141—Principles of Nutrition.....	3
PEAC 1300—Social Dance	1
PEPR 2012—Physical Education for Elementary School	3
PEPR 2050—Care and Prevention of Athletic Injuries.....	2
PEPR 2100—Theory of Coaching.....	2
PEPR 2110—Scientific Foundation of Athletic Coaching.....	2

MINIMUM CREDITS FOR DEGREE = 64

**Transfer and General Electives for a
Teacher Education Program in
Physical Education**

Number and Title	Credits
EDFD 2100—Educational Psychology.....	3
EDFD 2020—Foundations of Education	3
* EDUC 2100—Practicum in Teaching.....	3-6
PEPR 2012—Physical Education for Elementary School.....	3
PSYC 1000—General Psychology	4
OEP 1100—Introduction to Adventure Education	2

** Will count as the Capstone Course*

**Transfer and General Electives for a
Coaching Endorsement**

Number and Title	Credits
HLED 1225—Standard First Aid and CPR 2 or	2
* PEPR 1040—Sport First Aid.....	2
PEPR 2050—Care and Prevention of Athletic Injury/Illness.....	2
PEPR 2110—Scientific Foundations of Athletic Coaching.....	2
PEPR 2100—Theory of Coaching	2
PSYC 1000—General Psychology	4
PSYC 1200—Human Development	3

** Students interested in coaching are strongly encouraged to take Sport First Aid*

**Transfer and General Electives for a
Health Focus**

Number and Title	Credits
FCSC 1141—Principles of Nutrition.....	3
HLED 1005—Risky Behaviors.....	3
HLED 1225—Standard First Aid and CPR 2	2
HLED 1270—Wellness.....	3
HLED 1271—Diet and Exercise.....	2
HLED 2006—Health for Elementary Educators.....	1
PEPR 2050—Care and Prevention of Athletic Injury/Illness.....	2
PSYC 1000—General Psychology	4
PSYC 2200—Human Sexuality	3

MINIMUM CREDITS FOR DEGREE = 64

**NORTHWEST COLLEGE SKILLS
CERTIFICATE
ASSISTANT COACH**

This certificate is designed for students wishing to meet the requirements for assistant coach endorsement by the Wyoming Professional Teaching Standards Board.

Number and Title	Credits
PEPR 2100—Theory of Coaching (specific sport).....	2

PEPR 2110—Scientific Foundations of Athletic Coaching.....	2
PEPR 2050—Care and Prevention of Athletic Injuries.....	2
HLED 1225—First Aid/CPR	2
or	
PEPR 1040—Sport First Aid.....	2

TOTAL CREDITS FOR CERTIFICATE = 8

**NORTHWEST COLLEGE SKILLS
CERTIFICATE
HEAD COACH**

This certificate is designed for students wishing to meet the requirements for head coach endorsement by the Wyoming Professional Teaching Standards Board. Students must have completed the requirements for or received the Assistant Coach Certificate.

Number and Title	Credits
PSYC 1000—General Psychology	4
PSYC 1200—Human Development	3

TOTAL CREDITS FOR CERTIFICATE = 7

**Associate of Science
Pre-Baccalaureate
Nursing**

A two-year pre-nursing program must closely resemble that required by BSN schools of nursing. We strongly encourage students to work with an advisor at Northwest and the college or university you plan to transfer to before selecting coursework.

**ASSOCIATE OF SCIENCE
PRE-BACCALAUREATE NURSING**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	31-37

Core Courses

Core Courses	21-24
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The pre-baccalaureate Nursing Program requires a strong core of general education and science courses. Students should develop a plan of study with their advisor.

TOTAL 21-24

MINIMUM CREDITS FOR DEGREE = 64

Associate of Applied Science Nursing

The Northwest College Associate of Applied Science Degree Nursing Program is approved by the Wyoming State Board of Nursing and accredited by the National League for Nursing Accrediting Commission. (NLNAC, 61 Broadway 33rd Floor, New York, NY, 10006, 800-669-1656, ext 153, FAX 212-812-0390.) The two-year program of study leads to an Associate of Applied Science Degree in Nursing. Upon successful completion of the program, students are eligible to take the National Council Licensure Examination for Registered Nursing.

The program is open to all individuals interested in a career in nursing. Classroom, laboratory, and clinical experience are integrated throughout the program. The student gains nursing experience in patient care under the direct supervision of qualified instructors.

To be eligible for graduation from Northwest College, students must satisfactorily complete the curriculum as outlined in the Northwest College catalog for the academic year of admission into the Nursing Program.

Criteria for admission to the Nursing Program are:

- Completion of standard Northwest College application.
- Completion of a Nursing Program Letter of Intent.
- Three letters of reference.
- A goal statement that addresses your reason for the choice of nursing as a career and what you see as the role of a nurse within the health care arena.
- A personal interview with nursing faculty.
- Evidence of high school graduation or GED (score of 500 or above).
- Cumulative GPA of 2.5 (most recent high school transcript or last 12 credits of college coursework or GPA on those courses taken as required by the Northwest College Nursing Program, at least 12 credits).

- Placement at math level 2 (eligible to take MATH 0930). Math testing is required for courses older than five years.
- Completion of ZOO 2010 – Human Anatomy and Physiology I (within the past five years), PSYC 1000 – General Psychology, and ENGL 1010 – Introduction to Composition with a grade of 2.0 or better in each course.
- ACT score of 20 (applies to first two years after high school graduation. Successful college work may fulfill this criteria).
- Nurse Entrance Test composite percentage of 74 or above.
- Evidence of certification as a nursing assistant by the Wyoming State Board of Nursing. (This is not required for acceptance into the program, but it is required prior to entrance in the fall semester, freshman year.)

Students admitted to the program may anticipate additional expenses for student uniforms, name pins, shoes, liability insurance fees, travel to clinical facilities, stethoscopes, bandage scissors, licensure fees, plus meals, transportation, and housing for off-campus activities. Students must provide their own transportation to the clinical facilities.

Current licensure as a Practical Nurse or completion of a Practical Nursing Program is required to be eligible for advanced placement into the second year of the Nursing Program. Students will be admitted for advanced placement depending on space availability and the following:

- Completion of a standard Northwest College application.
- Completion of an Advance Placement Nursing Program Letter of Intent.
- Cumulative GPA of 2.0 on a 4 point scale from the Practical Nursing Program attended.
- Completion of the LPN Gap test.
- Completion of a Skills Laboratory and Clinical Challenge Examination, if deemed necessary by the nursing faculty and Director of Nursing.
- Licensure as a Practical Nurse or eligibility for Licensure Examination for Practical Nursing.

- Completion of the following general education courses with a grade of “C” or better:

ZOO 2010 – Human Anatomy and Physiology I (4 credits)

ZOO 2020 – Human Anatomy and Physiology II (4 credits)

PSYC 1000 – General Psychology (4 credits).

CO/M 1025 – Communication for Health Care Professionals (2 credits)

or

CO/M 1030 – Interpersonal Communication (3 credits).

ENGL 1010 – Introduction to Composition (3 credits).

- Placement at math level 2 (eligible to take MATH 0930). Placement testing within the last five years.
- Completion of NRST 2500 – Role Transition – PN to RN.
- Three letters of reference
- A personal interview with the nursing faculty

ASSOCIATE OF APPLIED SCIENCE NURSING

General Education Requirements

Number and Title	Credits
ANTH 1200—Cultural Anthropology	3
or	
SOC 1000—Sociology Principles.....	3
ENGL 1010—Introduction to Composition	3
ENGL 2030—Critical Reading and Writing.	3
or	
ENGL 2017—Introduction to Research.....	3
College level math course with a designator of MATH 1000 or above.....	3-4
*MOLB 2210—General Microbiology.....	4
PEAC—Activity	1
POLS 1000—American and Wyoming Government.....	3
or	
HIST 1221—The United States from 1865 ..	3
PSYC 1000—General Psychology	4
*ZOO 2010—Human Anatomy and Physiology I	4
*ZOO 2020—Human Anatomy and Physiology II.....	4
TOTAL 32-33	

** Any science course required by this Nursing Program must have been completed within the past 5 years (unless a bachelor's degree or higher has been earned in a science/health science field). A student may take a course a maximum of two times to earn a 2.0 or better*

to enter into the Nursing Program or to be allowed to continue in the program once admitted.

Core Courses

Number and Title	Credits
NRST 1540—Nursing I.....	4
NRST 1580—Introduction to Medication Administration	2
NRST 1630—Mental Health Nursing.....	2
NRST 1700—Nursing II	3
NRST 1710—Clinical Experience I.....	2
NRST 1720—Clinical Experience II	4
NRST 2600—Nursing III.....	3
NRST 2620—Maternal Child Nursing I.....	2
NRST 2730—Clinical Experience III.....	5
NRST 2740—Clinical Experience IV.....	5
NRST 2750—Nursing IV	2
NRST 2760—Leadership Management (Capstone Course).....	2
NRST 2770—Maternal Child Nursing II.....	2
NRST 2820—Introduction to Pharmacology.....	2
TOTAL	40

MINIMUM CREDITS FOR DEGREE = 72-73

ASSOCIATE OF SCIENCE ALLIED HEALTH

The Allied Health Program is designed for students preparing for the Nursing Program or a profession in Allied Health. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements of Northwest College in order to transfer as a junior. Contact the Director of Nursing for details on admission criteria.

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 30-38.....	33-36

Core Courses

Number and Title	Credits
CO/M 1025—Communication for Health Care Professionals.....	2
HLSC 1010—Introduction to Allied Health Professions	2
HLSC 2030—Applied Allied Health Concepts (Capstone Course).....	2
MOLB 2210—General Microbiology.....	4
NRST 1200—Medical Terminology.....	2
PSYC 1000—General Psychology	4
ZOO 2010—Human Anatomy and Physiology I.....	4
ZOO 2020—Human Anatomy and Physiology II.....	4
TOTAL	24

Core Electives

Number and Title **Credits**
Students must complete one three-credit course and one four-credit course from the following courses.

ANTH 1200—Introduction to Cultural Anthropology.....	3
or	
SOC 1000—Sociological Principles.....	3
and	
CHEM 1010—Principles of Chemistry.....	4
or	
NRST 1510—Nurse Assistant (required for nursing)	4
TOTAL	7

MINIMUM CREDITS FOR DEGREE = 64

NORTHWEST COLLEGE COMPREHENSIVE SKILLS CERTIFICATE PRACTICAL NURSING

This certificate program provides a solid foundation in the principles and theories of nursing for students planning to practice as Licensed Practical Nurses in the health care setting. Students must successfully complete general education requirements and core courses with a “C” or better to meet certificate program requirements. Students who successfully complete the certificate program will be eligible to take the National Council Licensure Examination for Practical Nursing.

Contact the Director of Nursing for details on admission criteria.

General Education Requirements

Number and Title	Credits
CO/M 1025—Communication for Health Care Professionals.....	2
or	
CO/M 1030—Interpersonal Communication.....	3
ENGL 1010—Introduction to Composition.....	3
PSYC 1000—General Psychology	4
ZOO 2010—Human Anatomy and Physiology I.....	4
ZOO 2020—Human Anatomy and Physiology II.....	4
TOTAL	17-18

Core Courses

Number and Title	Credits
NRST 1000—Fundamentals of Nursing.....	3
NRST 1580—Introduction to Medication Administration	2

NRST 1635—Mental Health Nursing for Practical Nursing	2
NRST 1705—Clinical Experience I for Practical Nursing	2
NRST 1735—Clinical Experience II for Practical Nursing	4
NRST 1745—Nursing Care of the Adult I for Practical Nursing	4
NRST 1980—Practical Nursing Role Exploration	1
NRST 2545—Geriatric Nursing.....	1
NRST 2605—Maternal Child Nursing I for Practical Nursing	3
NRST 2615—Nursing Care of the Adult II for Practical Nursing.....	3
NRST 2755—Geriatrics Practicum	5
TOTAL	30

TOTAL CREDITS FOR CERTIFICATE = 47-48

NORTHWEST COLLEGE SKILLS CERTIFICATE NURSING ASSISTANT

This Northwest College certificate is designed to prepare students to take the national CNA examination to acquire state certification by providing basic theory principles and skills necessary to provide client/resident care in the health care setting. The student will be made aware of how state and federal laws as well as policies and procedures of the institution govern the practice of the nursing assistant. Special emphasis is placed on the role of the nursing assistant in meeting the physical, psychosocial, mental, spiritual, and cultural needs of the client/resident. The student will be introduced to medical vocabulary and terminology to give the students a working knowledge of medical terms, the use of prefixes, suffixes, word roots, and combined forms of words.

Number and Title	Credits
NRST 1200—Medical Terminology.....	2
NRST 1510—Nursing Assistant.....	4

TOTAL CREDITS FOR CERTIFICATE = 6