

Academic
Transfer Options

Architecture

Pre-Chiropractic

ASSOCIATE IN SCIENCE DEGREE

Summary of Requirements

Complete the departmental requirements of the institution to which the student intends to transfer. **All courses taken at Grays Harbor College should be transfer courses.**

- Complete an approved ninety credit program containing pre-professional and general education coursework
 - Complete three PE requirement credits
 - Maintain an overall GPA of at least 2.0
 - Fulfill all obligations to the college, financial or otherwise
- and**
- Fulfill general requirements for all degrees as described on page 46.

ACADEMIC TRANSFER OPTIONS

Architecture

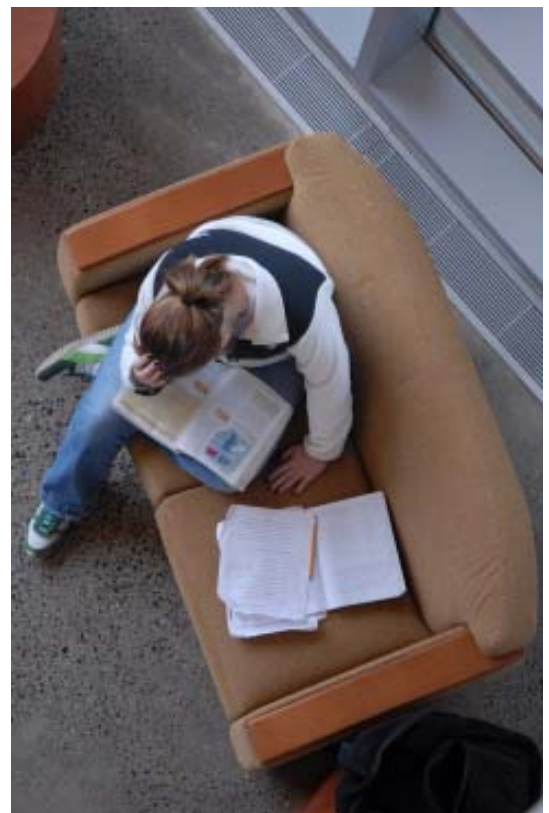
Architects provide a variety of professional services to individuals, organizations, corporations, or government agencies and play an important role in the creation of a better built environment. They are involved in all phases of development of a building project and thus require a variety of skills in design, engineering, managerial and supervisory capacities. Employment opportunities are with private practitioners, for large corporations or for governmental agencies. A transfer program will be designed by a faculty advisor to fit the program of the student's intended transfer institution. It will include courses in mathematics, physics, design, communication, humanities, social science and physical education.

Pre-Chiropractic

Chiropractic is a method of natural health care. The major therapeutic tool used by chiropractors is the adjustment of the body's skeletal system and soft tissues. Chiropractors must be licensed to practice in all states. A degree program requires five or six years of training. The first two years are pre-chiropractic studies, followed by three to four years at a professional chiropractic college. There are minimum admission standards and completion of the two-year pre-chiropractic program does not guarantee acceptance to a chiropractic college.

Credits

BIOL 201, 208, 209	15
CHEM& 161, 162, 163	17
CHEM& 261, 262 (263 recommended)	12-15
ENGL& 101, 102	10
MATH& 142	5
PHYS& 121, 122, 123	15
PSYC& 100	5
Social Science and Humanities	10
PE requirement credits	3



Criminal Justice

The typical career ladder for criminal justice graduates includes entry-level assignments in law enforcement, courts, correctional services or related criminal justice activities. Additional advanced-level assignments include supervision and management functions. Completion of a bachelor degree typically requires at least four years of study. The first two years are spent meeting general college or university requirements. These requirements may be appropriately met at a community college. The last two years are generally spent at a four-year college or university, majoring in a specific area of criminal justice.

The following courses are recommended to meet the common core requirements of the first two years of criminal justice. The general education requirements vary among the four-year institutions. Students should make sure they meet the requirements of their transfer institution. Most students planning to transfer to a college or university in Washington for upper-division work are advised to complete an Associate in Science degree.

All courses, including electives, must be approved by the student’s academic advisor at Grays Harbor College.

	<u>Credits</u>
CJ& 101, 106, 112; CJUS 102, 104, 110, 151, 201, 204, 258 (select courses from the above)	20-30
ENGL& 101 and 102 or 235	10
MATH& 107 or higher	5
Social Science	15
Humanities	15
Science	15
Electives	0-10
PE requirement credits	3

NOTE: Graduates of the Basic Police Academy, Correctional Officer Academy, and Police Reserve Academy may request in lieu credit. Credit for advanced training provided by the Washington State Criminal Justice Training Commission may be accepted. Please see the Criminal Justice advisor for additional information.

Pre-Dental Hygiene

Dental hygiene is a health profession primarily involved with preventive care. This will involve patient education as well as cleaning, radiographs and certain types of treatment. Dental hygienists must be graduates of an accredited professional school and be licensed by the state in which they wish to practice. Admission to a professional program will require course work in chemistry, biology, communication skills and certain electives. Admission to professional programs are quite competitive. Students should make contact with their intended professional program as early as possible during their time at GHC. An academic advisor will help each student select GHC courses that will meet prerequisites of the professional program of his or her choice.

	<u>Credits</u>
BIOL& 160, 260; BIOL 208, 209	20
CHEM& 121, 131	10
ENGL& 101, 102	10
MATH& 107	5
PSYC& 100	5
SOC& 101	5
SPCH 101	5
Electives	30
PE requirement credits	3

Pre-Dentistry

Dentists examine and treat patients for oral diseases and abnormalities of the teeth. Dentists must be licensed to practice. Applicants for a license must be graduates of an accredited dental school and have passed the written examination, given by the National Board of Dental Examiners, and a practical examination. Most D.D.S. degrees require eight years of training. Dental colleges require from two to four years of pre-dental education, but most students accepted into dental school have a baccalaureate degree in science. The first two years of training in the dental school emphasize basic sciences, clinical science and pre-clinical techniques. The last two years are spent in a dental clinic treating patients. Admission to a school of dentistry is very competitive and completion of a bachelor of science degree does not guarantee acceptance into the professional program. The following courses are Pre-Dentistry recommended as lower-division requirements for a pre-dentistry major:

Criminal Justice

Pre-Dental Hygiene

Pre-Dentistry

Pre-Dentistry (continued)

Pre-Dentistry

	<u>Credits</u>
BIOL 201, 202, 203; BIOL& 260	20
CHEM& 161, 162, 163, 261, 262, 263	32
ENGL& 101, 102	10
MATH& 142	5
PHYS& 121, 122, 123	15
Humanities	10
Social Science	10
PE requirement credits	3

Forestry

Forestry

Some foresters manage resources such as timber, water, wildlife, rangeland and recreational areas. Other foresters work mainly as engineers or do work related to the chemistry of wood. In general, foresters work for lumber and paper companies and government agencies such as the U.S. Forest Service. A bachelor degree in forestry requires four years of college training. The first two years are spent taking basic courses required of all forestry majors.

The following courses are representative of courses used to meet the lower-division requirements for a major in forestry:

University of Washington	<u>Credits</u>
BIOL 201, 202, 203	15
CHEM& 121, 131	10
ECON& 201, 202	10
ENGL& 101, 102	10
GEOL& 101	5
MATH& 142, 151; MATH 260	15
PHYS& 121	5
POLS& 202	5
SPCH 101	5
Electives: (include at least one Humanities course)	17
PE requirement credits	3

Washington State University	<u>Credits</u>
BIOL 201, 202, 203	15
CHEM& 121, 131	10
ECON& 201, 202	10
ENGL& 101, 102	10
GEOL& 101	5
MATH 111 or MATH& 142	5
MATH& 148 or 151	5
MATH 260	5
SPCH 101	5
Electives: (include at least nine hours in Humanities)	27
PE requirement credits	3

Pre-Medical Technology

Medical technologists aid physicians by preparing tissues for examination, performing analysis on all body fluids and making various technical tests. They work in clinics, hospitals, research laboratories and physicians' offices. Medical technologists must be certified to practice. The basic requirements for certification generally include three years of college training and twelve months of specialized training in an approved hospital.

The following courses are recommended to meet the lower-division requirements for a major in medical technology:

	<u>Credits</u>
BIOL 201, 202, 203; BIOL& 260	20
CHEM& 161, 162, 163, 261, 262, 263	32
ENGL& 101, 102	10
MATH& 142, 151; MATH 260	15
PHYS& 121, 122, 123	15
Humanities	10
Social Science	10
PE requirement credits	3

Pre-Medicine

Physicians perform medical examinations, diagnose disease and treat people suffering from injury or disease. Physicians must be licensed to practice. Applicants for a license must have a doctor of medicine (M.D.) degree from an accredited college of medicine, have passed the National Board of Medical Examiners test and have completed two years of residency. Most M.D. degrees require eight years of professional training and two years of residency. The first four years are spent acquiring a bachelor degree followed by four years of professional training and two years of residency. Admission into a college of medicine is very competitive and completion of a bachelor degree does not guarantee acceptance into the professional program.

The following courses are recommended as lower-division requirements for a pre-medicine major:

	<u>Credits</u>
BIOL 201, 202, 203	15
CHEM& 161, 162, 163, 261, 262, 263	32
ENGL& 101, 102	10
MATH& 142, 151, 152, 153	5-20
PHYS& 121, 122, 123 or 221, 222, 223	15
Humanities	10
Social Science	10
PE requirement credits	3

Pre-Naturopathic Medicine

Naturopathic physicians treat illness and strive for disease prevention through a variety of methods including nutritional regimens and treatment with substances of natural origin. Some include in their practice midwifery or acupuncture, but these activities are not limited to those with the N.D. degree. Naturopathic physicians are licensed as primary-care physicians in the state of Washington. Prerequisites for professional programs vary; therefore, course schedules will be developed for each student by their advisors. Admission to a school of naturopathic medicine is competitive and generally requires a bachelor degree from an accredited college or university, but sometimes exceptions are made for those with 45 upper-division (junior, senior) quarter credits and significant life experience. Prospective naturopathic physicians need a foundation in the sciences, but should also have an education that includes the humanities and social sciences as well. The Associate in Science degree in Pre-Naturopathic Medicine fulfills the science, math, and psychology prerequisites for admission to a naturopathic medical school. Further studies beyond the A.S. degree are required.

The following courses are recommended for a pre-naturopathic major:

	<u>Credits</u>
BIOL 201, 202, 203	15
CHEM& 161, 162, 163, 261, 262*	29
ENGL& 101, 102	10
MATH& 142	5
PHYS& 121, 122, 123	15
PSYC& 100	5
SPCH 101	5
Electives	6
(include at least 5 credits of Humanities)	
PE requirement credits	3

* **CHEM& 263 (3 credits) recommended but not required.**

Pre-Optometry

Optometrists examine people’s eyes for vision problems, disease, and various abnormal conditions and prescribe lenses and treatment. Optometrists must be licensed to practice. Applicants for a license must have a Doctor of Optometry degree from an accredited optometric school and pass a state-board examination. A degree program typically requires six years of training. The first two years are pre-optometry studies, followed by four years at a professional optometry school.

Pre-Optometry (continued)

Prerequisites for professional programs vary; therefore, course schedules will be developed for each student by their advisors. Admission to a professional school is very competitive and completion of the two-year, pre-optometry program does not guarantee acceptance into the professional program.

The following courses are recommended for a pre-optometry major:

	<u>Credits</u>
BIOL& 160 or 260 and BIOL 208, 209	20
CHEM& 161, 162, 163, 261,262, 263	32
ENGL& 101, 102	10
MATH& 142, 151; MATH 260	15
PHYS& 121, 122, 123	15
PSYC& 100	5
Humanities	10
Social Science	5
PE requirement credits	3

Pre-Pharmacy

Pharmacists work in hospitals, clinics, and prescription pharmacies, are self-employed, or work as sales and medical service representatives. Pharmacists must have a license to practice. An applicant for a license must be a graduate from an accredited school of pharmacy, pass a state board examination and have a specified amount of practical experience or internship under the supervision of a registered pharmacist. A degree in pharmacy typically requires six years of training. The last four years must be spent in an accredited school of pharmacy. Prerequisites for professional programs vary; therefore, course schedules will be developed for each student by their advisors.

The following courses are recommended for pre-pharmacy majors:

	<u>Credits</u>
BIOL 201, 202, 203, BIOL& 260	20
CHEM& 161, 162, 163, 261,262, 263	32
ENGL& 101, 102	10
MATH& 141, 148 MATH 260	15
Humanities	10
Social Science	10
PE requirement credits	3

*Pre-Naturopathic
Medicine*

Pre-Optometry

Pre-Pharmacy

Pre-Physical Therapy

Pre-Veterinary Medicine

Pre-Physical Therapy

Physical therapists help people with muscle, nerve, joint and bone diseases or injuries to overcome their disabilities. They work in hospitals, nursing homes, rehabilitation centers, physicians' offices and clinics. They must be licensed to practice. Applicants for a license must have a degree or certificate from an accredited physical therapy program and pass a state board examination. Prerequisites for professional programs vary; therefore, course schedules will be developed for each student by their advisor. Admission into the program is very competitive and students must attain excellent grades in science to be accepted into the program.

The following courses are recommended for pre-physical therapy majors:

	<u>Credits</u>
BIOL& 160 or BIOL 201	5
BIOL 208, 209, BIOL& 260	15
CHEM& 161, 162, 163	17
ENGL& 101, 102	10
MATH& 142, MATH 260	10
PHYS& 121, 122, 123	15
PSYC& 100, 220	10
Electives	8
(include at least 5 credits of Humanities)	
PE requirement credits	3

Pre-Veterinary Medicine

Veterinarians diagnose and treat disease and injuries among animals. Veterinarians must be licensed to practice. Applicants for a license must have a doctor of veterinary medicine degree from an accredited college of veterinary medicine and pass a state board examination. Most degrees require seven years of training. The first three years are pre-veterinary studies, followed by four years of professional training. Admission to a college of veterinary medicine is extremely competitive and completion of the three-year, pre-veterinary medicine program does not guarantee acceptance into the professional program.

The following courses are recommended for the pre-veterinary medicine major:

	<u>Credits</u>
BIOL 201, 202, 203	15
CHEM& 161, 162, 163, 261, 262, 263	32
ENGL& 101, 102	10
MATH& 142, MATH 260	10
PHYS& 121, 122, 123	15
Humanities	10
Social Science	10
PE requirement credits	3

