

# SEATTLE CENTRAL COMMUNITY COLLEGE

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<http://seattlecentral.org/sccc/>

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CENTRAL · WELCOME

*“I have found that  
the success of Seattle  
Community College  
students flows over the  
community as a whole in  
many positive ways.”*



Robert Ewing, honor student, transferring to the University of Washington for a bachelor's degree and degree in law.

SCOTT AREMAN PHOTO

## MISSION

*Seattle Central Community College promotes educational excellence in a multicultural urban environment.*

*We ensure opportunities for academic achievement, workplace preparation and service to the community by creating a learning environment which is accessible, diverse, responsive and innovative.*



## ABOUT THE COLLEGE

Seattle Central overlooks downtown Seattle from Capitol Hill, one of the liveliest neighborhoods in the city. The college promotes educational excellence in its multicultural urban environment, and has received national recognition for its innovative student services and educational programs. Central's coordinated studies program was a pilot for the nation, with multi-disciplinary teams of faculty who teach around a central theme of inquiry.

It's not all study at Seattle Central. The new campus Student Activity Center draws students with its swimming pool, racquetball courts and weight rooms. And a new Fine and Performing Arts Center benefits both students and the city's arts scene.

The college is among the top five in the state to transfer students to four-year colleges, and it also offers more than 30 professional-technical programs, in well-paying, high-demand fields such as Arts Management, Biotechnology, Commercial Photography, Information Technology and Wireless Communications. Details on these programs and more are in this section.

### 1998-1999 Academic Year Statistics +

#### STUDENTS

Headcount	19,050
Median Age ++	27
Male/Female	43 / 57%
Full-time/Part-time	49 / 51%
Diversity Rate	50.9%
Distance Education	1645
International	760
Running Start	578
Worker Retraining*	335

+ Source: Washington Community and Technical Colleges Academic Year Report 1998-1999, SBCTC

++ Fall 1999 State Supported; Source: SBCTC Student MIS:SR1102, Version 3

\* Includes Dislocated Natural Resource Workers



## STUDENT SERVICES AT CENTRAL

Academic Advising	(206) 587-4068
Admissions	(206) 587-5450
Career Info Center	(206) 344-4383
Counseling	(206) 587-3851
Financial Aid	(206) 587-3844
International Student Admissions	(206) 587-3893
Registration	(206) 587-6918
Voice & TDD	(206) 344-4347
Testing Services	(206) 587-6344
Tutoring Services	(206) 587-3852

# Student Services

## ACADEMIC & CAREER RESOURCES

### Advising Center

(206) 587-4068

The Advising Center assists students with selecting classes based on a student's background and test results. Advisors provide students with accurate and up-to-date academic information before and during registration by assisting them in selecting appropriate courses to their individual academic goals as well as the requirements for two-year degrees and/or transferring to a four-year institution.

### Campus Library

(206) 587-4050

The library offers a wide range of resource information and services to students and the college community. Librarians are available to help students take full advantage of the library's electronic databases and find books, reference resources, periodicals, and audio-visual media.

The Seattle Central library collection is accessible district-wide. Students can use the inter-library loan to access library materials from other libraries in Washington and nearby states.

### Center for Deaf Students

(206) 587-4183

The Center for Deaf Students at the Seattle Community Colleges, based at Seattle Central Community College, provides services for Deaf Students throughout the district. The Center for Deaf Students works to assist deaf and hard of hearing students with interpreting, counseling and notetaking. Each student receiving support services from the Center works with a counselor fluent in ASL, and may receive interpreting and notetaking services for classes, tutoring and school-related activities.

The public TTY at Seattle Central Community College is located in the hallway near room BE 1140.

### College Transfer Advising Center

(206) 587-5469

Planning to transfer to a four-year school? The College Transfer Advising Center, located in room BE 1107, is available to all registered SCCC students with a special focus on the needs of students of color. The Center enables SCCC students to learn about transfer opportunities and meet representatives from local and national four-year schools.

The Center also houses the Transfer Resource Library (room BE 1107K), which contains college catalogs, scholarship information, transfer guides, applications, and information on majors for local and national four-year schools. It also has Internet access to universities and colleges nationwide, and free scholarship locators linked through the District web site: <http://www.sccd.ctc.edu>.

Center staff members are available to answer questions and provide support in the transfer process. Students are advised to take charge of their education and become experts in their own transfer planning.

#### OFFICE HOURS:

Monday	8:00 a.m. – 4:30 p.m.
Tuesday	10:00 a.m. – 6:00 p.m.
Wed - Fri	8:00 a.m. – 4:30 p.m.

### College-wide Tutoring

(206) 587-3852

The college-wide tutoring service provides individual and group tutoring. In addition, a wide range of workshops to improve study skills are also available. For information, visit room BE 1106 or call the coordinator at (206) 587-5463.

#### TUTORING HOURS:

Mon - Thurs	8:00 a.m. – 8:00 p.m.
Friday	8:00 a.m. – 4:00 p.m.
Saturday	11:00 a.m. – 3:00 p.m.

### Computer Center

(206) 587-4194

The Computer Center is available to all Seattle Central students and offers PC and Macintosh computers. Current Seattle Central enrollment, a diskette, and a lab fee are required. Students without computer experience are encouraged to enroll in MIC 102-I (a 1-credit orientation course), or MIC 102-W (a 1-credit introduction to Microsoft Word) prior to use. Call the Center for more information.

### Career Information Center

(206) 344-4383

The Career Information Center (CIC), located in room 1107E, is a self-help resource center where currently enrolled students and the public can discover their career options, learn more about their career choices, locate educational programs, and search for scholarship information. The CIC maintains computerized self-assessments, occupational databases, books, videotapes and a variety of publications. The Center provides help with the career decision-making process, career exploration, college search and scholarship search. Services are available daily 8:30 a.m. - 4:30 p.m., and Tuesday from 8:30 a.m. - 6:30 p.m.

### Career Placement Center

(206) 587-5422

The Career Placement Center offers the following resources and services to enrolled students: job/internship/volunteer listings; job search information; resumé and employment letter critiques; on-campus employer/agency recruiting visits; annual career fair; and access to a computer for resumé and cover letter preparation or to search for jobs over the Internet.

## Counseling Services

(206) 587-3851

Counselors work in divisions throughout the college to assist students in educational planning and advising, and career and personal counseling. Counselors located in professional technical programs offer information sessions and are generally the individuals to contact for admission to specific programs.

## DECLARE

(206) 587-5561

The DECLARE Program assists students with choosing their major field of study before transferring to a four-year college or university. DECLARE features regularly scheduled workshops and individual orientations to aid students in declaring a college major and includes workbooks and the Strong Interest Inventory. This program works closely with SCCC's Academic Advising and College Transfer Advising Centers to provide students the resources and advising needed to successfully transfer and earn their bachelor's degree.

## Disability Support Services

(206) 587-4183 (Voice/TDD)

Students with special needs are encouraged to contact this office prior to registration to help determine what services are needed and available. All inquiries are considered confidential. Documentation of disability is required.

Support services can include advocacy, counseling, referral for diagnostic testing for learning disabilities, note takers, readers, special testing accommodations, support groups, scribes, and taping of textbooks.

It is important that students register with the Disability Support Services Office before accommodations are arranged.

## Media Services

(206) 587-4053

The Media Services department is part of the library, and provides audio-visual equipment and media to support classroom instruction and enhance the learning process. Items available to students and faculty include audio and videotapes, CDs, slides, camcorders, video projectors, monitors, and VHS units.

## Student Academic Assistance Department

(206) 587-3852

The Student Academic Assistance Department, and its primary program, Student Support Services, a TRIO Program provides free support services to promote the academic, career and personal growth of students. To qualify, students participate in a needs assessment with a counselor who will provide assistance for any of the center's five service areas: counseling, tutoring, career information, skill development workshops, and trips to four-year colleges and universities.

Services are available daily 8:00 a.m. - 4:30 p.m. Counseling is also available Tuesday evenings, 4:00 - 6:00 p.m. (room BE1106).

## Study Abroad Office

(206) 344-4486

Visit the Study Abroad Office in Room 204 of the South Annex (corner of Broadway and Pine) and browse through our resource library for study and work programs offered throughout the world. Appointments are recommended for advising sessions.

## Testing Office

Automated Appointment Scheduling (206) 587-6913

GED (206) 587-6915

OFFICE INFORMATION (206) 587-6344

The Testing Office, room 1108, offers math and English placement tests, GED and limited vocational tests. A testing schedule is posted outside the office and by telephone.

## Transfer by Major

Transfer by Major is a program for community college students who plan on seeking a 4-year degree from a 4-year institution in Washington state. The goal of this program is to encourage students to select a transfer destination and a major field of study early in their enrollment process which allows the colleges to track the student's progress in meeting transfer admissions requirements. Undecided students may also use this program to determine a future course of action.

## CAMPUS LIFE

### Art Gallery

(206) 344-4379

Located in the Atrium (room BE2116), the art gallery offers exhibits and activities from September through June. Hours are 9 a.m. to 3 p.m., Monday through Friday; also, 5 p.m. to 7 p.m., Tuesdays and Wednesdays.

### Associated Student Council

(206) 587-4057

Each student paying service and activities (S & A) fees as part of tuition automatically becomes a member of the Associated Student Body (ASB).

ASB services include sponsorship of educational, cultural, and recreational activities such as films, dances, concerts, lectures, dinners, and festivals. The Associated Students Council (ASC) is the official student government, and is responsible for representing students' interests to the college administration and for allocating funds for tutoring, childcare, and other special projects.

### Bookstore

(206) 587-4148

The bookstore, located across Broadway from the main college building (room SAC 250), is well stocked with new and used textbooks, general interest books, school supplies, and sundry items. The bookstore offers a textbook buy-back service every day with a special student buy-back the last week of each school quarter.

### Childcare Center

(206) 587-6938

The Childcare Center is located in room BE 1113 and is certified to care for children ages 18 months through 5 years old. Our teacher:child ratio is maintained at 1:10 or less for preschool age children and 1:7 or less for toddlers. The Center is open from 7:50 a.m. - 4:30 p.m. during fall, winter and spring quarters. Tours of the center are available upon request. Registration is required. Call for registration dates.

### Food Services

(206) 344-4319

The Atrium Cafeteria, located across from Registration, is open from 7:30 a.m. until 8:00 p.m. Monday - Thursday and until 2:00 p.m. on Friday. This area features a variety of breakfast items, beverages, soup, salad bar, sandwiches, and snacks. The Central, located across the hall from Financial Aid, has similar hours, but remains open until 8:15 p.m. Monday - Thursday. The Central features coffee, a wide variety of beverages, pastries, snacks, wrapped sandwiches and essential school supplies. The espresso stand, next to the first floor Broadway entrance serves 75,000 cups of java of every description each year to the campus community.

### Housing

(206) 587-6924

On-campus housing is not available. However, the Student Leadership office, located above the bookstore, provides forms for posting housing information on the housing bulletin board. The bulletin board, listing housing information is located in the main school hallway across from the information center.

## Leadership Institute

(206) 587-3890

The Leadership Institute features discussions with campus and community leaders, and skill building workshops. The institute is designed for student leaders, but is open to all students. Meetings run every Tuesday 1:30 p.m. – 2:30 p.m. in the Leadership Conference Room.

## Metro Bus Service

SCCC Transportation Services (206) 587-6932  
(206) 344-4393

Due to limited parking and environmental concerns, carpooling or bus transportation is strongly encouraged. The college is well-served by the Metro bus system. Students registered for 10 or more credits are eligible to purchase a “Go Pass” – a reduced price Metro pass – at the Cashier’s Office. Students registered for 10 or more credits using Community Transit, Pierce Transit or the State Ferry systems are eligible for a subsidy once a quarter. Students can contact Transportation Services in room BE1112.

## Parking Services

(206) 587-6932

Student parking in the garage before 1:00 p.m. is limited to students with SCCC carpool permits. Frequently, the supply of permits/parking spaces is insufficient to meet this demand. Single occupant student parking permits are available only for the evening period, which starts at 1:00 p.m. After 1:00 p.m., parking can also be paid for on a daily basis (\$4/day) without a quarterly permit. Student carpool applications are available at Transportation Services in room BE1112. Student single occupant parking permits can be purchased at the Cashier’s Office or in the evening at the Information Office, room BE1109.

## Safety

(206) 587-5442

The students’ well-being and safety are of utmost importance. It is vital that everyone follow strict safety procedures recommended in vocational classes. In the event of an on-campus accident or injury, students and faculty should report the accident to the Campus Security office so the injury can be addressed and an accident report completed. Do not hesitate to immediately call 9-911 for serious injuries. Instructors must be notified if the accident occurs during class.

**Personal safety:** Each of the campuses in the Seattle Community College District is a unique community where thousands of people work and study. However, as each campus is also open to the public, students should use the same caution as they would in any public place in taking care of their personal safety and personal belongings. Helpful campus information and statistics on personal safety are available at the campus Security Office, as well as at offices of the Registrar, Financial Aid, and Student Leadership.

**Policy on drugs:** To provide a healthful, safe and secure work and learning environment, each employee and student of the Seattle Community College District is expected to be in an appropriate mental and physical condition to perform assigned duties and fully participate in the learning process. The Policy on Drugs, effects of commonly abused drugs, and resources for assistance are outlined in a brochure available at a variety of locations on campus, including Student Activities, Library, Information Center, Admissions Office and the Wellness Center.

**Sexual harassment:** Brochures outlining policy and procedures regarding sexual harassment complaints are also available at the locations listed above.

## Student Accident Insurance

(206) 587-6924

Accident insurance is available to students registered for 6 or more credits. The district-wide policy provides broad coverage at a comparatively inexpensive rate. Information is available in the Student Leadership Office (above the Bookstore).

## Student Activity Center

Recreation Info Line (206) 587-6315

A wide array of equipment and activities are housed in the new three level building complex directly east of the main campus: 5,000 sq. ft. fitness center, locker rooms with saunas, lap pool with adjacent spa, indoor squash and racquetball courts, indoor track and a gym with event seating for 1,000 spectators. Members are eligible to use all of the center's facilities and provided sports equipment and towels free of charge.

## Student Ambassador Program

(206) 587-3890

SCCC Ambassadors represent the school in the community or serve as campus hosts. To be eligible for ambassadorship, students must complete HDC 120, Intro to Leadership Theory and Practice, or participate in a student board training program.

## Student Leadership Division

(206) 587-6924

The Student Leadership Division offers students a wide variety of opportunities for involvement in learning experiences outside the formal classroom. Call for information about:

- Student Programs, which sponsor lectures, performances, cultural celebrations, art and craft fairs and other activities and events that inspire, entertain and complement classroom studies.
- Student Organizations, which offer students the opportunity to gain experience and skills in event-planning, team-building, public speaking, fiscal management and leadership.
- Associated Student Council, which includes student representatives of the Seattle Central Community College student body and holds weekly open meetings in the Student Leadership office located above the bookstore.

Students are encouraged to visit the Student Leadership office, which provides a broad spectrum of information and resources to assist with issues both on campus and in the community.

## Student Publications

CITY COLLEGIAN (206) 587-6959

The *City Collegian* is the college newspaper published for and by students at Seattle Central Community College. A governing board sets policy guidelines. Students should contact the *City Collegian* if interested in joining the editorial or production staff.

THE WOMEN'S FORUM (206) 587-3854

Published quarterly through Women's Programs, the *Women's Forum* features articles, poetry and artwork by and about SCCC students.

## Wellness Center

(206) 344-4413

Central's Wellness Center offers a comprehensive program of prevention and wellness to create an environment supportive of healthier lifestyle choices. The Center is located in room BE1146.

## BEYOND THE CAMPUS

### SCCC Alumni Association

(206) 587-6940

The Alumni Association offers educational, cultural, social and family programs and activities, as well as professional and personal development courses. All graduates, faculty, staff, and former students are invited to join.

### The SCCC Foundation

(206) 587-6940

The Seattle Central Community College Foundation's primary focus is helping the college ensure that its students receive the educational access and opportunities they need to succeed. To this end, the Foundation's volunteer board of directors actively seeks funding to support essential college programs and activities which are generally not funded by state or federal monies. Just as important, the board assists the college in establishing closer ties with the Seattle business community.

The three primary funding priorities of the Foundation are the college-wide tutoring program, the scholarship program and the child care scholarship fund.

# Special Programs & Services

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## Institute of English

(206) 587-3893

The Seattle Central Institute of English is a self-supporting program offering a variety of accelerated English as a Second Language courses and related training for international students, business people and tourists. Most SCIE students are either preparing to enter U.S. colleges and universities, or are interested in improving their English skills for use in their home, country or business.

## International Student Office

(206) 587-3893

This office can help international students get started in their educational program and adjust to the Seattle area. See page 11 for additional information.

## Multicultural Affairs Academic Support

(206) 587-5466

Seattle Central attracts a culturally diverse population of students, who are assisted in obtaining educational support services for success. In addition, multi-ethnic social and cultural events, such as celebrations of Black History Month, Cinco de Mayo, and Lunar New Year are sponsored by the Student Leadership office at (206) 587-6924; room SAC 315 (above the Bookstore).

## Veterans' Affairs

(206) 587-4147

This office provides several special services for veterans. For more details, see "Financial Assistance for Veterans," page 8.

## Women's Programs

(206) 587-3854

The Women's Programs (room BE1139) assist women in identifying and achieving their educational and career goals, with a special emphasis on support for low-income returning women students and women pursuing non-traditional career options. This office also coordinates WorkFirst services for the college, including Tuition Assistance for low-income parents. Students can also access Women's Programs at the Internet site: <http://www.sccd.ctc.edu/~msutth>.

The *Women's Forum*, a student publication celebrating the literary and artistic expression of SCCC women, is published at the beginning of winter and spring quarters.

Women's Programs also sponsors student organizations such as Women in Science and Engineering; EMPOWER, a support and advocacy group for single parent students focused on public assistance and childcare concerns.

The Wednesday Noon Lecture Series, free and open to all, brings a wide variety of guest speakers to campus to discuss issues of concern to women. SCCC students may also register for HDC 190, Women in Society, to receive credit for participating in the lecture/discussion series.

## Worker Retraining

(206) 587-6310V/TDD

The Worker Retraining office has been established to help dislocated and unemployed workers return to the labor force following an industry decline or mass layoff. The office provides career planning, placement, job search assistance, training and financial aid.



# College Transfer Programs

## College Transfer at Central

Seattle Central Community College offers a full spectrum of college transfer courses that apply toward a four-year program of study. Students are encouraged to attain their associate of arts or associate of science degree at Seattle Central Community College for greater ease of transfer to a four-year institution; they may also take individual classes for transfer. It is recommended that students confer with an academic advisor to ensure course transferability.

Students planning to earn an A.A. or A.S. degree must meet minimum standards of preparation. Those whose records and test scores indicate a need for additional preparation may be required to complete preliminary work in the college preparatory program.

See page 18 for areas of study for the A.A. or A.S. degree.

## ACADEMIC PROGRAMS

College transfer courses are offered in several disciplines, including:

Anthropology	Foreign Languages
Art	General/Biological Science
Chemistry	Geography
Communication/Speech	Human Biology
Computer Science/Mathematics	Humanities
Drama	Journalism
Earth Science	Music
Economics	Philosophy
English	Physical Science
Environmental Science	

These fields of study are grouped among three Areas of Knowledge (see page 17) and are included throughout the A.A. degree curriculum.

### For Science Pre-Majors

Refer to the College Transfer Section of this catalog (page 16) for a list of science pre-major programs that can be taken in the first two years of a four-year program.

### For Engineering Pre-Majors

Science & Math Division (206) 587-3858

The courses listed below generally meet requirements for the first and second years of study toward completion of a four-year engineering program, but may not constitute a complete two-year program leading to junior standing. Students who anticipate transferring to a specific school should consult with a counselor for assistance in course selection.

#### SUGGESTED COURSES

Chemistry 140, 150 and 160 (some majors require only 8 credits)  
Engineering 123, 142, 161, 170, 171, 210, 215, 220, 230, 231, 260  
English 106  
Math 124, 125, 126, 220, 238  
Physics 201, 202, 203

#### OTHER REQUIREMENTS

Credits in general education, English and liberal studies as required for an A.A. or A.S. degree.

# Basic Studies

## Basic Studies at Central

(206) 587-4180

Basic studies programs provide instruction for those who want to improve basic verbal and math skills or earn a high school diploma in order to get better jobs, continue their education, and improve their lives. Each of the programs in this area is designed to meet a particular set of student needs.

### Adult Basic Education

Adult Basic Education (ABE) is a tuition-free program that enables adults to improve basic reading, writing, and math skills. Students in this program can start at a level that matches their current skills and progress at their own pace. Classes in basic math and communication skills are designed to help adults become more self-sufficient, find better jobs, or qualify for entry into post-secondary education programs. Class activities help students work more effectively with others, understand how they can increase their own learning, and increase personal responsibility. In addition to teacher-led classes, students can learn basic skills through the use of computers and improve their computer literacy skills. Classes are offered from Level 2 through Level 4. (See course descriptions under Adult Basic Education.)

### General Education Development Preparation

Adults may demonstrate that they have reached an education level equal to a high school diploma by taking the General Education Development (GED) test. GED preparation helps students improve their reading, writing and math skills before taking the test. The course also covers the science and social studies skills required to pass the test. The class stresses math for practical problem-solving, English usage, reading comprehension and test-taking skills.

Ability to read at or above eighth grade level or completion of ABE Level 3 is required for students. Students who pass the GED test earn a GED certificate, acceptable to colleges, vocational programs, unions, and many employers as equivalent to a high school diploma. (See course descriptions under General Educational Development.)

### English as a Second Language

English as a Second Language (ESL) classes help non-English speaking persons understand, speak, read, and write English in order to carry out daily personal activities, get or keep a job, advance in the workplace or continue their educational goals.

English as a Second Language classes are free for U.S. residents. A wide range of class levels start at the literacy level (pre-beginning) and progress through the intermediate level. Emphasis is on improving listening, comprehension, pronunciation, vocabulary development, and English structure. An ESL skills lab provides additional practice in pronunciation, listening, and conversation outside the classroom. Students can also improve English skills through the use of computers. (See course descriptions under English/English as a Second Language.)

### Transitional English as a Second Language

This program is designed for students preparing for vocational or academic study at U.S. colleges. The classes help the non-native speaker develop better speaking, reading, and writing skills needed for college-level study. Beginning with grammar and vocabulary skills, the courses advance to note-taking, composition, oral presentation and class discussion skills at a more advanced level. Two levels of Transitional English as a Second Language are available. Students must qualify for transitional ESL by taking the SLEP test. Pre-college level courses require payment of tuition. (See course descriptions under English/English as a Second Language.)

## High School Completion

(206) 344-4483

For students who have not completed work for a high school diploma, High School Completion offers the opportunity to earn the diploma through two options. The basic requirements for each of these options are listed below, but students planning to work toward a high school diploma should obtain a copy of "Requirements for the High School Diploma" from a counselor or advisor for complete information.

According to Washington State Law (WAC 180-51-035): "A student shall have the right to graduate in accordance with the standards in effect for the school of graduation for any year since such student commenced the ninth grade unless more than ten years has passed since such entry. In such case, the student shall have the right to graduate in accordance with the standards in effect for the school of graduation for any year within the last ten years."

GED test scores may not be substituted for college or high school credits. GED preparation course credits may be approved for this program.

### OPTION A:

#### Standard High School Diploma

(95 college credits)

A high school diploma may be earned by satisfactorily completing 95 college credits consisting of the required courses and approved elective courses. The majority of these classes are college level substitute courses. Placement into these substitute courses is based on assessment results.

An applicant must submit an official transcript of the last high school attended and transcripts from any colleges attended. Transcripts will be evaluated to show how many credits or equivalent courses apply towards the 95 credits. A minimum grade point average of 2.0 is required for graduation. The final quarter of attendance must be taken at Seattle Central.

#### REQUIRED COURSES OR APPROVED COLLEGE SUBSTITUTE:\*

Sophomore English (ENG 092) .....	5**
Junior English (ENG 094 or 095) .....	5
Senior English (ENG 096 or 101) .....	5
Fine Arts (Drama, Music or Art) .....	5
Pacific Northwest History (HIS 264) .....	5
U.S. History I (HIS 111, 113, 114) .....	5
U.S. History II (HIS 106, 112, 115) .....	5
Contemporary World Problems .....	5

*Courses may be selected from POL 112, 220, 230; ENV 150; GEG 207; ECO 160, 203; HIS 103, 200; SOC 110, 150, 270.*

Mathematics series (MAT 081) .....	10
<i>Pre-algebra, Algebra I, or a math class at student's placement level.</i>	

Science .....	10
<i>Two courses, one of which must be a lab science. To complete the science requirement, the student may take any science courses for which prerequisites have been met.</i>	

Occupational Education .....	5
<i>May be chosen from any professional technical courses.</i>	

Physical Education (PEC 109, 129, 131) .....	2
<i>May be waived with permission.</i>	

Health (HEA 125, 150) .....	5
Approved Electives .....	23-25
<i>Electives are chosen from college transfer or professional technical courses.</i>	

TOTAL CREDITS .....	95
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*Students who began ninth grade prior to July 1, 1987 are not required to complete the 5-credit Fine Arts requirement. For those students, a total of 90 credits is required as follows:*

REQUIRED CREDITS .....	65-67
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ELECTIVE CREDITS .....	23-25
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TOTAL CREDITS .....	90
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*\*Students wishing to substitute a course for one of the requirements should contact a counselor.*

*\*\*In the Seattle Community Colleges, a 5-credit class is equivalent to one year of high school study.*

### WORK EXPERIENCE

Through the Cooperative Education Office, up to 5 credits may be granted for work experience upon proof of satisfactory employment.

Based on the recommendations of the Commission on Accreditation of Service Experience of the American Council on Education, course requirements may be waived and credit granted for completion of six months of military training in the U.S. Armed Forces.

### OPTION B:

#### Associate Degree

#### Conversion Diploma

A student may be granted a high school diploma by satisfactorily completing the Associate of Arts Degree or the Associate of Science Degree and the following additional courses:

U.S. History I (HIS 111, 112, or 114) .....	5
U.S. History II (HIS 106, 112, or 115) .....	5
Pacific Northwest History (HIS 264) .....	3-5

### ABOUT THE TUITION WAIVER FOR HIGH SCHOOL COMPLETION

80% of the regular tuition is waived for students who fulfill the following criteria:

1. Age 19 or older
2. Resident of the State of Washington

To receive a tuition waiver, a student must submit an application for high school diploma completion. If the student selects the associate degree option, only the courses listed above for Option B will be covered by the waiver.

Students under 18 years old and whose class has not yet graduated must pay the regular tuition fees for their courses unless they enroll in Running Start (see page 22). Non-residents will be charged the resident tuition fee.

Students 17 years old must also be approved to attend Seattle Central by the Director of Admissions and obtain a letter of release from their school district. Seattle School District students should contact the Office of Student Placement.

# Continuing Education

## CONTINUING EDUCATION AT SEATTLE CENTRAL

(206) 587-5476

The Office of Continuing and Professional Education offers a variety of credit and non-credit educational opportunities for individuals, organizations, and businesses.

### Community Education Classes

(206) 587-5448

Community Education programs focus on lifelong learning needs for personal enrichment, training and development. These programs respond to current community needs through seminars, workshops and classes that are non-credit and may range from a one-evening, three-hour offering to quarter-long classes.

### Computer Training Programs

(206) 587-5448

The Computer Training programs work to strengthen a range of skills from introductory computer courses in word processing, to high-end 3D animation or MSCE certification. Students have available an array of computer training programs that includes Microsoft Office Suite, database software, multimedia software, WEB design and computer programming and networking.

### INTERACTIVE MULTIMEDIA COURSES (206) 587-4060

Interactive multimedia courses come in two different formats: CD-ROM or via the Internet. Individuals who have access to the Internet can pre-register for courses online and receive their course guides, assignments, teachers review and comment via e-mail.

### 3D ANIMATION MULTIMEDIA COURSES (206) 587-4060

A full range of training workshops and projects for current and aspiring professionals in the interactive multimedia industry. Focus of the instruction is on state-of-the art software packages and programs from visual layout to 3D animation.

### RetailSkills Center

(206) 587-5499

The RetailSkills Center, to be located in downtown Seattle in partnership with the National Retail Federation, will offer a variety of customized, non-credit and credit-based courses for individuals entering or currently working in the retail, financial services and hospitality industries. Computer, specialized training and certificate programs will also be provided as well.

### Customized/Certificate Training

(206) 587-5483

Continuing and Professional Education, in partnership with government and industry partners, conducts a number of extended training programs that result in a professional certificate. Programs such as bilingual court interpreter, English-as-a-Second Language Teaching Certificate and Sustainable Building Advisor Certificate Program reflect a growing trend in short-term, high-impact development for high-in-demand professionals with special knowledge and skills.

### Online Training/Courses

(206) 587-3843

Individuals who have severe time constraints, but who want to receive training in personal enrichment courses, computer training, and professional development can sign up for a variety of non-credit, online classes from the college's Continuing Education Department.

### Teacher Training Program

(206) 287-5541

K-12 paraprofessionals, teacher aides, teachers and those interested in becoming teachers can enroll in the college's pre-teaching and ESL endorsement training programs and courses. Federal grants enable qualified individuals to receive courses tuition-free with books and related expenses also covered. The Teacher Training Program offers a special ESL teaching institute every summer.

### Center for Independent Study

(206) 587-5422

The Center for Independent Study offers a variety of educational opportunities, including programs that grant academic credit for job, intern or volunteer service activities, and resources to assist students with their job search. The Center houses the following programs:

### COOPERATIVE EDUCATION PROGRAM (206) 587-5422

Cooperative Education is an educational program offered to students enrolled in college transfer or professional-technical programs. Students are able to earn credit for their jobs (with permission), paid or unpaid internships, or volunteer service to the community.

### CAREER PLACEMENT (206) 587-5422

Offers a variety of services to students, including job/intern/volunteer listings, professional resume and cover letter critiques, mock interviews, computer and phone access, free job search materials, and access to businesses and non-profit agencies who recruit on campus throughout the year and at the annual Career Fair.

# Occupational Programs

## APPAREL DESIGN & SERVICES

Communications & Design Division (206) 587-3830

This program provides the fundamentals of pattern making and garment construction for the apparel industry. Courses cover an overview of the apparel manufacturing industry; ready-to-wear and custom construction techniques; patternmaking methods including, draping, flat and drafting; pattern grading; garment design; color and textiles; alterations; contemporary tailoring methods and computers.

### Associate of Applied Science Degree

#### TECHNICAL SPECIALTY COURSES

ADS 101	Construction Techniques for Professional Applications .....	4
ADS 102	Intermediate Construction for Professional Applications .....	4
ADS 103	Mass Market Production Techniques .....	4
ADS 111	Design Through Flat Patternmaking I .....	4
ADS 112	Pattern Development Through Draping .....	4
ADS 113	Design Through Flat Patternmaking II .....	4
ADS 122	Professional Alterations & Fitting I .....	2
ADS 139	Intro to Apparel Manufacturing .....	2
ADS 141	Textile Technology & Design I .....	2
ADS 142	Textile Technology & Design II .....	2
ADS 197*	Work Experience: App'l Des. & Serv. ....	8
ADS 205	Contemporary Tailoring .....	4
ADS 207	Active Sportswear Construction .....	4
ADS 215	Intro to Pattern Grading for the Garment Industry .....	4
ADS 221	Professional Alterations & Fitting II .....	2
ADS 226	Intermediate Pattern Grading .....	4
ADS 227	Pattern Design for Ready-to-Wear .....	4
ADS 228	Pattern Design for Active Sportswear .....	4
ADS 229	Design a Line .....	2
ADS 230*	Portfolio & Resumé Development .....	2
ADS 240*	Computerized Pattern Grading .....	3
ADS 243	Textile Technology & Design III .....	2
ADS 250	Final Line Design & Development .....	6

#### ADDITIONAL COURSES

ADS 298	Special Topics in Apparel Design .....	1-5
BUS 185*	Small Business Management .....	5
MIC 141*	Computer Apps. for Apparel Design I .....	3
MIC 142*	Computer Apps. for Apparel Design II .....	3
PSY 220*	Psychology of Human Relations .....	3

\* Classes which meet the related instruction requirement.

TOTAL CREDITS 93-95

## ARTS MANAGEMENT (formerly Theater Arts)

Communications & Design Division (206)587-3830

### Certificate

ENG 101	Composition .....	5
ACC 101	Accounting Principles I .....	5
MIC 101	Intro to Computer Applications .....	4
BUS 101	Intro to Business .....	5
SPE 120	Intro to Public Speaking .....	5
HDC 106	Interview/Resumé .....	1
BUS 299	Special Topics: Arts Management I .....	4
BUS 299	Special Topics: Arts Management II .....	4
BUS 299	Special Topics: Arts Management III .....	4
BUS 197	Work Experience .....	15
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TOTAL CREDITS		52

## BIOTECHNOLOGY

Science & Math Division (206) 587-3858

Skills and training for those interested in working at biotechnology companies or research laboratories using biotechnology. An Associate of Applied Science Degree (A.A.S.) may be earned by completing the basic program requirements plus 15 credits in the visual, literary, and performing arts category, and 20 credits in the individual, cultures and society category. Please consult the counseling office for more information. Students must maintain a minimum 2.0 GPA in their course work to remain in the program.

*Note: This program is currently under revision.  
Students should check with the division office regarding current degree requirements.*

### Associate of Applied Science Degree

#### TECHNICAL SPECIALTY COURSES

BIO 101*	General Biology I	5
BIO 102*	General Biology II	5
BIO 195	Biotechnology Seminar I	1
BIO 196	Biotechnology Seminar II	1
BIO 197**	Cooperative Work Experience	3
BIO 280	Microbiology	5
BIO 282	Media & Solution Preparation	2
BIO 285	Biotechnology Lab I	6
BIO 286	Biotechnology Lab II	6
BIO 287	Biotechnology Lab III	6
BIO 290	General Genetics	5
BIO 295	Immunology	5
CHE 101	Inorganic Chemistry	5
CHE 102	Organic Chemistry	5
CHE 103	Biochemistry	5
CHE 211	Quantitative Analysis for Biotechnology	5
CSC 180	Scientific Computing & Bioinformatics	3
MIC 101	Intro to Microcomputer Applications	4

#### RELATED INSTRUCTION

ENG 101	Composition	5
ENG 106†	Technical Writing	3
MAT 122	Precalculus	5

\* BIO 100 or ANP/ZOO 128 may be taken as substitutes.

\*\* May be taken any time during program. BIO 280 is recommended before applying for internship positions.

† Students intending to complete transfer degrees (A.A. or A.A.S.) need to take ENG 102 instead.

ELECTIVES 5

TOTAL CREDITS 95

## BUSINESS INFORMATION TECHNOLOGY

Business, Languages & Cultures Division (206) 344-4347

This program prepares students for employment as specialists in information processing and office administrative assistant positions requiring computer literacy in word processing, spreadsheet, and database business applications.

### Certificate

#### REQUIRED COURSES

BUS 113	Diversity Issues in Business	3
BUS 116	Business Math/Spreadsheets	5
BUS 131	Integrated Communications I	5
BUS 132	Integrated Communications II	5
BUS 140	Customer Relations	5
BUS 170	Information Technology I	4
BUS 171	Information Technology II	4
BUS 172	Information Technology III	4
BUS 182	Information & Database Management	5
BUS 197	Work Experience: Business	4
BUS 216	Professional Development	5

TOTAL CREDITS 49

### Associate of Applied Science Degree

COMPLETION OF CERTIFICATE REQUIREMENTS 49

#### ALLIED SUPPORT COURSES

ACC 210	Financial Accounting: Fundamentals I	5
BUS 100	Fundamentals of Supervision	3
BUS 101	Intro to Business - OR -	
BUS 185	Small Business Management	5
BUS 103	Human Resources Management	3
BUS 178	Web Site Design & Development with HTML	5
BUS 181	Intro to Desktop Publishing	5
MIC 120	System Development with High Level Tools	4
MIC 150	Internet & the World Wide Web	4
SPE 100	Person to Person: Fundamentals of Human Communication	5

GENERAL EDUCATION COURSES 10

*Selections must be made from a list of approved general education courses.*

TOTAL CREDIT 98

## CORRECTIONS OFFICER TRAINING

Health & Human Services Division (206) 587-6900

### Certificate

#### TECHNICAL SPECIALTY COURSES

COT 100	Intro to Corrections .....	3
COT 102	Corrections Environment .....	3
COT 109	Corrections Operational Procedures .....	5
COT 197	Worked-Based Learning .....	3
COT 199*	Corrections Seminar .....	2
PEC 150**	Physical Fitness .....	2/2

#### RELATED INSTRUCTION

HUM 105	Intercultural Communications .....	5
IFS 100	First Aid & CPR .....	2
SHS 108	Group Dynamics & Counseling .....	5
SHS 150	AIDS Workshop .....	1
MIC 101	Intro to Microcomputers .....	4

#### PLUS ONE OF THE FOLLOWING PSYCHOLOGY COURSES: 5

PSY 110	General Psychology
PSY 210	Personality & Individual Differences
PSY 215	Abnormal Psychology
PSY 206	Developmental Psychology

\* Ongoing class; grade given at end of second quarter.

\*\* To be taken each quarter.

Eligibility for graduation requires a 2.0 GPA in all required technical specialty and related instruction courses.

TOTAL CREDITS 42

## CULINARY ARTS / HOSPITALITY

Hospitality & Culinary Arts Division (206) 587-5425

Seattle Central's culinary arts program encompasses all skill levels of the restaurant, hotel and food service industries, and includes procurement, sanitation, nutrition, food preparation, service training and principles of management, with an emphasis on international cuisine. Students can begin the program during Fall, Winter or Spring quarters. The curriculum provides a six-quarter certificate, with the opportunity to earn an A.A.S. or A.A. degree thereafter. NOTE: The A.A.S. degree may not transfer to a four-year institution. To continue for a bachelor's degree, students should see the division counselor or assistant dean to choose courses in support of the A.A. degree.

The program offers professional/technical training required for opportunities in this industry from entry-level to executive chef and key management positions. Graduates may continue their education in the program's continuing education classes. All programs require a high school diploma or G.E.D. and minimum 2.0 grade point average in all core and related instruction courses for completion.

The wide selection of classes includes extensive theory instruction including the French basics; hands-on training in the kitchen, bakery, dining rooms and cafeteria; restaurant management exercises; the "Chef-of-the-Day" menu writing and production course; and optional participation in competitive food shows and exhibits. All training is directly supervised by world-class executive chefs and pastry chefs. This program is accredited by the American Culinary Federation.

### CULINARY ARTS

#### Certificate

#### TECHNICAL SPECIALTY COURSES

BAK 104	Intro to Baking: Theory .....	1
BAK 105	Restaurant Baking: Theory .....	1
BAK 114	Intro to Baking: Practicum .....	.5
BAK 115	Restaurant Baking: Practicum .....	.5
BAK 116	Fine Dining Baking: Practicum .....	.5
CUL 101	Intro to Professional Cooking: Theory .....	8
CUL 102	Quantity Cooking: Theory .....	5
CUL 103	Restaurant Cooking: Theory .....	5
CUL 104	Fine Dining: Theory .....	4
CUL 111	Intro to Professional Cooking: Practicum .....	4
CUL 112	Quantity Cooking: Practicum .....	8
CUL 113	Restaurant Cooking: Practicum .....	8
CUL 114	Fine Dining: Practicum .....	8
CUL 200	Advanced Culinary Management: Clinical .....	1
CUL 203	Chef of the Day: Practicum .....	4
CUL 251	Buffet Catering/Garde Manger/Ice Carving: Theory .....	4
CUL 255	Buffet Catering/Garde Manger/ Ice Carving: Practicum .....	9
HOS 101	Intro to Customer Service: Practicum .....	.5
HOS 102	Customer Service: Practicum .....	1
HOS 103	Table Service: Practicum .....	1
HOS 104	Tablesides Service: Practicum .....	1
HOS 109	Advance Customer Service .....	.5
HOS 110	Principles of Sanitation .....	3
HOS 111	Intro to Customer Service: Theory .....	1

HOS 122	Purchasing & Inventory: Theory .....	1
HOS 123	Food Costing Principles & Application .....	1
HOS 124	Computerized Menu Planning .....	2
HOS 200	Functions of Management .....	6

## RELATED INSTRUCTION

BIO 103	Nutrition, Food Service .....	3
ENG 105	Applied Composition .....	3
HDC 106	Interviewing, Resumés, Job Hunting .....	1
MAT 110	Applied Math for Technicians .....	3
MIC 102	Using Computers .....	1
SPE 102	Human Relations/Communication .....	3

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TOTAL CREDITS	103.5
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*NOTE: Certain courses require concurrent enrollment. Please check under culinary course descriptions for specifics.*

## Associate of Applied Science Degree

COMPLETION OF CERTIFICATE REQUIREMENTS	103.5
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ALLIED SUPPORT ELECTIVES	12
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*Any CSC, BUS, MIC or college transfer class, or CUL 299.*

GENERAL EDUCATION ELECTIVES	4
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*Any humanities, social science, natural science, or CSC class.*

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TOTAL CREDITS	119.5
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## SPECIALTY DESSERTS &amp; BREADS

A newly-expanded, four-quarter program designed to provide required skills in dessert and bread preparation for baking positions in restaurants, hotels, private clubs, catering companies, coffeehouses and pastry shops. Utilizing contemporary methods and state-of-the-art equipment, students experience hands-on preparation of rustic and artisan breads, pastries, tortes, gateaux, meringues, soufflés, confection and frozen desserts, with decorating techniques involving sugar, chocolate and sauces.

## Certificate

## TECHNICAL SPECIALTY COURSES

BAK 101	Intro to Desserts & Breads: Theory .....	4
BAK 102	Beginning Desserts & Breads: Theory .....	3
BAK 103	Intermediate Desserts & Breads: Theory .....	3
BAK 111	Intro to Desserts & Breads: Practicum .....	6
BAK 112	Beginning Desserts & Breads: Practicum .....	9
BAK 113	Intermediate Desserts & Breads: Practicum .....	9
BAK 123	Advanced Desserts & Breads: Theory .....	3
BAK 124	Advanced Desserts & Breads: Practicum .....	9
BAK 200	Desserts & Breads Externship Project .....	1
HOS 101	Intro to Customer Service: Practicum .....	.5
HOS 102	Customer Service: Practicum .....	1
HOS 105	Bakery Counter Service: Practicum .....	1
HOS 106	Advanced Bakery Counter Service: Practicum .....	1
HOS 110	Principles of Sanitation .....	3
HOS 122	Purchasing & Inventory: Theory .....	1
HOS 123	Food Costing Principles & Application .....	1

## RELATED INSTRUCTION

ENG 105	Applied Composition .....	3
HDC 106	Interviewing, Resumés, Job Hunting .....	1
MAT 110	Applied Math for Technicians .....	3
MIC 102	Using Computers .....	1
PSY 220	Psychology of Human Relations .....	3

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TOTAL CREDITS	66.5
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## DEAF INTERPRETER TRAINING

Business, Languages  
& Cultures Division

V/TTY (206) 344-4347

Also see *Interpreter Training Program*, page 135.

Seattle Central Community College's Deaf Interpreting Certificate program prepares students to work as intermediary interpreters for deaf consumers with special needs and deaf-blind consumers. Increasingly this career has become an option for deaf individuals. The curriculum includes skills classes and practicums.

Deaf interpreters work in areas such as colleges, public schools, or as freelance interpreters. This program provides students with a background which helps them prepare for work in human services areas such as vocational rehabilitation, early childhood education, and social and mental health agencies. Graduates may also be employed in theaters, libraries, corporations, museums, or other arenas in which deaf and hearing people interact.

Students must have successfully completed two years of American Sign Language (ASL 101-103 and 201-203) or have equal skill in signing to enter this program. New students are accepted in the fall of each year, and the program completion time is two years. Eligibility for all certificates and degrees requires a cumulative GPA of 2.0 or above in all coursework. Contact the program counselor for program application procedures, schedule information and revisions.

## Certificate

### TECHNICAL SPECIALTY COURSES

ASL 120	Intro to Deaf Studies .....	5
ASL 125	American Deaf Culture .....	5
ITP 115	Survey of Interpreting .....	3
ITP 119	Deaf-Blind Interpreting .....	4
ITP 145	Ethics of Interpreting .....	3
ITP 216	Interpreting Specialized Settings .....	3
ITP 217	Professional Entry Preparation .....	3
ITP 245	Applied Interpreting Experience I .....	4
ITP 250*	Applied Interpreting Experience II .....	4
ITP 255*	Applied Interpreting Experience III .....	4
ITP 260*	Interpreting IV .....	4
ITP 261*	Interpreting V .....	4
DRA 112	ASL Theatre .....	5

### RELATED INSTRUCTION

BUS 260	Applied Business Economics .....	5
DRA 120	Intro to Acting .....	5
ENG 101	Composition .....	5
HUM 105	Intercultural Communication .....	5
SPS 201	Survey of Hearing Impairment .....	5

\* Satisfactory performance (2.5 GPA) required in the previous interpreting class in order to continue in the program.

NOTE: Students must maintain a 2.0 GPA in their course work to remain in the program.

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TOTAL CREDITS 76

### ELECTIVES

ASL 210	The Linguistics of ASL .....	5
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NOTE: Elective courses are generally offered during summer to assist students in continuing their skills.

## ENGINEERING PRE-MAJOR

Science & Math Division (206) 587-3858

The courses listed below generally meet requirements for the first and second years of study toward completion of a four-year engineering program, but may not constitute a complete two-year program leading to junior standing. Students who anticipate transferring to a specific school should consult with a counselor for assistance in course selection.

### SUGGESTED COURSES

Chemistry 140, 150 and 160 (some majors require only 8 credits)  
 Engineering 123, 142, 161, 170, 171, 210, 215, 220, 230, 231, 260  
 English 106  
 Math 124, 125, 126, 220, 238  
 Physics 201, 202, 203

### OTHER REQUIREMENTS

Credits in general education, English and liberal studies as required for an A.A. or A.S. degree.

## FILM & VIDEO COMMUNICATIONS

Communications & Design Division (206) 587-3830

The program provides training for employment in the rapidly growing broadcast and cable television, and video industries.

The two-year curriculum leading to the A.A.S. degree is characterized by interdisciplinary teaching, cooperative education opportunities and an emphasis on development of technical and creative skills needed to work in an artistic industry.

Job opportunities for graduates include positions such as studio technician, sound/audio technician, lighting technician, set designer, production assistant, technical director, camera operator/camera technician.

## Associate of Applied Science Degree

### TECHNICAL SPECIALTY COURSES

COM 101	TV Theory & Camera Composition .....	4
COM 102	TV Production & Post-Production .....	5
COM 103	TV Production Crew & Team Projects .....	5
COM 130	TV Production Design .....	3
COM 140	Intro to Media Images .....	3
COM 197	Work Experience – Applied Video Communications .....	0
COM 200	Small Group Productions .....	4
COM 214	History of Film & Video .....	3
COM 215	Media Law & Ethics .....	3
COM 225	Advanced TV Production/Applied Communications .....	5
COM 230	Technical Operations .....	2
COM 235	Production Management .....	3
COM 236	Audio Production .....	3
COM 240	Production Operations .....	3
COM 250	Portfolio Preparation .....	2
COM 260	Directing .....	3
COM 270	In-House Productions .....	3-5

### RELATED INSTRUCTION

DRA 120	Intro to Acting .....	5
ENG 101	Composition .....	5
ENG 102	Composition .....	5
ENG 150	Writing for the Media - Scriptwriting .....	5
ENG 155	Advanced Scriptwriting .....	3
ENG 203	Advanced Scriptwriting II .....	3
HIS 130	History of Broadcasting .....	3
MIC 105	Using Computers .....	2
MIC 130	Digital Imaging .....	3
MIC 131	Nonlinear Editing .....	3
MIC 241	2D & 3D Animation .....	3
SOC 120	Sociology of the Media .....	3

TOTAL CREDITS

97-99

## FIRE COMMAND & ADMINISTRATION PROGRAM

Health & Human Services Division (206) 587-6900

The Fire Command and Administration program provides continuing education and promotional opportunities for employees in the fire protection field. Emphasizing technical studies in preparation for command, administration and investigation positions in the urban setting, the Fire Command and Administration curriculum is designed to offer an opportunity for professional firefighters to receive an Associate of Applied Science upon completion of the program. The two certificates: *Fire Officer Development Certificate* and *Advanced Fire Officer Development Certificate*, consist of occupational specialty and general education courses to assist fire personnel to improve performance. The remaining courses build on the core Fire Command and Administration certificates.

NOTE: All courses meet or exceed the National Fire Protection Association (NFPA) 1021 Standards for Professional Officer I & II.

### Fire Officer Development Certificate

REQUIRED FCA CLASSES	16-17
FCA 120 Basic Fire Investigation .....	3
FCA 155 Fire Service Instructor .....	3
FCA 161 Incident Management I .....	3
FCA 170 Hazardous Materials I .....	3
FCA 231 Fire Service Leadership – OR –	
FCA 232 Fire Service Management .....	4
– OR –	
BUS 101 Intro to Business .....	5
RELATED INSTRUCTION	10
ENG 101 Composition .....	5
HUM 105 Intercultural Communication .....	5
<hr/> TOTAL CREDITS	<hr/> 26-27

### Advanced Fire Officer Development Certificate

REQUIRED FCA CLASSES	24-25
FCA 137 Fire Protection Systems I .....	3
FCA 152 Building Construction .....	3
FCA 190 Fire Inspection & Codes .....	4
FCA 231 Fire Service Leadership – OR –	
FCA 232 Fire Service Management .....	4
– OR –	
BUS 101 Intro to Business .....	5
FCA 233 Fire Service Administration .....	4
FCA 261* Incident Management II .....	3
FCA 270** Hazardous Materials II .....	3
RELATED INSTRUCTION	5
CSC 100 Beginning Computers - OR -	
CSC 103 Intro to Computers as a Learning Tool .....	5
<hr/> TOTAL CREDITS	<hr/> 29-30
*Prereq: FCA 161 – Incident Management I	
**Prereq: FCA 170 – Hazardous Materials I	
Associate of Applied Science	
COMPLETION OF CERTIFICATE REQUIREMENTS	55-57
RELATED INSTRUCTION	33-35
ENG 102 English Composition .....	5
CHE 100 Chemistry & Society .....	5
MATH 107 Mathematics – A Practical Art – OR –	
BUS 210 Business & Economics Statistics .....	5
PSY 110 General Psychology .....	5
SOC 110 Survey of Sociology .....	5
SPE 120 Intro to Public Speaking .....	5
ELECTIVES	5
FCA 105 Hydraulics .....	3
FCA 181 Fire Service Safety .....	3
FCA 299 Seminars .....	1-5
PHY 100 Survey of Physics .....	5
<hr/> TOTAL CREDITS	<hr/> 90

## GRAPHIC DESIGN & ILLUSTRATION

Communications & Design Division (206) 587-3830

This two year program combines hands-on computer-based knowledge and skills necessary to become employed in the graphic design and illustration field. The six quarter program includes classes in design, typography, illustration, and digital production to prepare students for positions in print and electronic design. Students move between studio classrooms and up-to-date computer labs with instructors experienced in the field. Full-time and adjunct faculty are practicing professionals, and the curriculum is monitored by an industry-based Technical Advisory Committee to maintain contemporary standards. The coursework is subject to change based on constant review and changes in the industry.

Students completing this program are prepared for entry-level positions in: advertising agencies producing layouts and presentations; newspaper, retail, corporate, and in-house graphics departments; as freelance print and electronic designers and illustrators; and in design studios assisting in the design and creation of corporate logos, annual reports, posters, brochures and web graphics.

### Certificate

#### TECHNICAL SPECIALTY COURSES

DES 101	Drawing I .....	3
DES 102	Drawing II .....	3
DES 103	Drawing III .....	3
DES 109	Graphic Design Business Practices .....	2
DES 110	History of Graphic Design .....	2
DES 121	Typography I .....	3
DES 122	Typography II .....	3
DES 123	Typography III .....	3
DES 131	Graphic Design I .....	3
DES 132	Graphic Design II .....	3
DES 133	Graphic Design III .....	3
DES 145	Graphic Production I .....	3
DES 146	Graphic Production II .....	3
DES 147	Graphic Production III .....	3
DES 197	Work Experience .....	3
DES 231	Graphic Design IV .....	4
DES 232	Graphic Design V .....	4
DES 233	Graphic Design VI .....	4
DES 234	Graphic Design VII .....	4
DES 235	Graphic Design VIII .....	4
DES 241	Illustration I .....	3
DES 242	Illustration II .....	3
DES 243	Illustration III .....	3
DES 244	Illustration IV .....	3
DES 245	Illustration V .....	3
DES 251	Multimedia I .....	3
DES 252	Multimedia II .....	3
DES 253	Multimedia III .....	3
DES 260	Portfolio Preparation .....	3

#### RELATED INSTRUCTION

BUS 185	Small Business Management .....	5
IMC 100	Media Production .....	3
IMC 101	Design for Visual Media .....	3
IMC 297, 298, 299	Integrated Media Communications .....	18
MIC 101	Intro to Microcomputer Applications .....	4
SOC 120	Sociology of the Media .....	3
	Electives .....	12
<i>Students may choose from any business, art, humanities, social science, science or math course.</i>		

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TOTAL CREDITS	108
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### Associate of Applied Science Degree

COMPLETION OF CERTIFICATE REQUIREMENTS	108
Plus 12 additional credits from business related areas, accounting, business, computers, desktop publishing, or college transfer. ....	
	12

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TOTAL CREDITS	120
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## GRAPHIC IMAGING & PRINTING TECHNOLOGY

Communications & Design Division (206) 587-3830

Seattle Central's two-year, (three-to six-quarter) Graphic Imaging and Printing Technology program prepares students to manipulate the creative concepts of the designer and photographer and output them to film, printing plates, web pages, or CD-ROM in the modern, high technology printing industry. Courses include hands on experience with computers, imagesetters, film processors, modern presses, papers, inks, and bindery equipment. Students learn how to estimate costs and plan jobs from start to finish. Students can earn a one- or two-year certificate or an A.A.S. degree.

### One-year Certificate

#### TECHNICAL SPECIALTY COURSES

GPT 100	Intro to Digital Prepress I .....	3
GPT 101	Intro to Prepress .....	3
GPT 102	Intro to Press .....	3
GPT 103	Intro to Finishing .....	2
GPT 104	Intro to the Graphic Arts Industry .....	2
GPT 110	Intro to Digital Prepress II .....	4
GPT 111	Multicolor Prepress .....	4
GPT 112	Multicolor Press .....	3
GPT 113	Finishing .....	2
GPT 120	Digital Prepress w/QuarkXPress .....	4
GPT 121	Prepress Practicum .....	4
GPT 122	Press Practicum .....	4
GPT 198	New Developments in the Graphic Arts Industry .....	2

#### RELATED INSTRUCTION

BUS 185	Small Business Management .....	5
IMC 100	Media Production .....	3
IMC 101	Design for the Visual Media .....	3
IMC 297, 298, 299	Integrated Media Communications .....	18
MIC 101	Intro to Microcomputer Applications .....	4
SOC 120	Sociology of the Media .....	3

TOTAL CREDITS 58

### Two-year Certificate

COMPLETION OF 1-YEAR CERTIFICATE REQUIREMENTS 58

GPT 197	Work Experience: Graphic Imaging & Print Technology .....	2
GPT 200	Color Theory: Issues & Applications in a Digital World .....	2
GPT 201	Estimating .....	2
GPT 202	Production Management .....	3
GPT 203	Portfolio .....	3
GPT 211	Digital Prepress & Imaging I .....	5
GPT 212	Advanced Press .....	3
GPT 221	Digital Prepress & Imaging II: Color Issues .....	4 or 8*
GPT 222	Process Color Press .....	4 or 8*
GPT 231	Production Prepress .....	4 or 8**
GPT 232	Production Press .....	4 or 8**
GPT 261	Electronic Publishing Software Apps. I: Focus on Color .....	4
GPT 262	Electronic Publishing Software Apps. II: Advanced Topics .....	4
GPT 298	Special Topics .....	3
HDC 106	Interviewing, Resumés, Job Hunting .....	1

\* Students will take a total of 8 credits in either GPT 221 or 222 or 4 credits in each for a total of 8 credits.

\*\* Students will take a total of 8 credits in either GPT 231 or 232 or 4 credits in each for a total of 8 credits.

TOTAL CREDITS 106

### Associate of Applied Science Degree

COMPLETION OF 2-YEAR CERTIFICATE REQUIREMENTS 106

Plus 12 additional credits from business-related areas, humanities, sciences, social sciences, math, or other media programs. .... 12

TOTAL CREDITS 118

## INFORMATION TECHNOLOGY

Instructional Resources Division (206) 903-3205

Information Technology prepares students for an industry with a growing need for skilled technicians. Graduates can expect to find employment in fields including: Help Desk Analyst, Help Desk Specialist, Programmer, Applications Analyst, Visual Basic Programmer, C, C++, Web Developer, Software Support Specialist, Technical Lead, and Customer Support Analyst.

### PREREQUISITES

CIS 102	Information Systems Concepts .....	3
ENG 106	Technical Writing .....	3
MAT 110	Applied Math for Technicians .....	3
MIC 101	Intro to Microcomputer Applications .....	4
MIC 110	Program Design & Development .....	4

## PROGRAMMING

### Certificate

#### TECHNICAL SPECIALTY COURSES

CIS 134	Operating Systems .....	5
CIS 136	UNIX Operating Systems .....	5
CIS 142	C Programming .....	5
CIS 172	Visual BASIC I .....	5
CIS 216	Intro to Web Programming .....	5
CIS 242	Advanced C Programming for Business .....	5
CIS 244	Intro to C++ Programming .....	5
CIS 255	Systems Analysis & Design .....	5
CIS 280	Server Side Development .....	5

#### RELATED INSTRUCTION

BUS 140	Customer Relations .....	5
MIC 140	Intro to Computer Hardware .....	5
DES 161	Web Graphics & HTML .....	5

TOTAL CREDITS 60-65

#### ELECTIVE

CIS 162	Intro to Java Programming .....	5
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## Associate of Applied Science Degree

COMPLETION OF CERTIFICATE REQUIREMENTS: 60-65

CIS 298	Advanced Programming Project .....	5
ENG 101	Composition .....	5
HUM 105	Intercultural Communications .....	5
MAT 116	Math Applications .....	5
	IT Electives .....	10

TOTAL CREDITS 90-95

## APPLICATIONS SUPPORT

### Certificate

#### TECHNICAL SPECIALTY COURSES

MIC 120	Database Applications & Design with MS Access .....	4
MIC 122	Financial Modeling Using Microcomputers .....	4
MIC 140	Intro to Computer Hardware .....	5
MIC 150	Internet & the World Wide Web .....	4
MIC 197	Work Experience: Microcomputer Management .....	5
MIC 260	MOUS Expert (Word/Powerpoint) .....	8

#### RELATED INSTRUCTION

BUS 140	Customer Relations .....	5
BUS 175	Applied Business Statistics .....	5
CIS 134	Operating Systems .....	5
DES 161	Web Graphics & HTML .....	5

TOTAL CREDITS 50

## Associate of Applied Science Degree

COMPLETION OF CERTIFICATE REQUIREMENTS: 50

ENG 101	Composition .....	5
HUM 105	Intercultural Communications .....	5
MAT 116	Math Applications .....	5
MIC 298	Advanced Applications Project .....	3-5
	IT Electives .....	20
	Electives .....	5

TOTAL CREDITS 93-95

## INTERPRETER TRAINING PROGRAM

Business, Languages & Cultures Division  
V/TTY (206) 344-4347

Also see *Deaf Interpreter Training*, page 129.

Seattle Central's Interpreter Training Program is one of the few two-year (six quarter) Associate of Applied Science (A.A.S.) degree programs in interpreting in Washington. The program prepares graduates to facilitate communication between deaf and hearing people using American Sign Language and English. It has a national reputation for its training program and for producing graduates with marketable skills.

A professional interpreter may work in a variety of settings such as education, social service, religion, government, business, performing arts, professional conferences, job training programs, scientific/technical areas, health fields, law, and law enforcement. Interpreters may specialize in one area or freelance depending on their personal skills and preferences.

The program includes skill-building classes, seminars, and applied interpreting experiences. Approximately 40 students per year are accepted in this sequential program that begins each fall quarter. Applicants are advised to submit applications before the end of spring quarter for consideration. Students must complete ASL 101 - 203 or show commensurate ability before being accepted into the Interpreter Training Program. Eligibility for all certificates and degrees requires a cumulative GPA of 2.0 or above in all coursework. Contact the division office for program revisions and the program counselor for application procedures and schedule information.

## Associate of Applied Science Degree

### TECHNICAL SPECIALTY COURSES

ITP 115	Survey of Interpreting .....	3
ITP 119	Deaf-Blind Interpreting .....	4
ITP 145	Ethics of Interpreting .....	3
ITP 160	ASL to English, Interpretation I .....	4
ITP 161	English to ASL, Interpretation I .....	4
ITP 162*	ASL to English, Interpretation II .....	4
ITP 163*	English to ASL, Interpretation II .....	4
ITP 164*	ASL to English, Interpretation III .....	4
ITP 165*	English to ASL, Interpretation III .....	4
ITP 216	Interpreting Specialized Settings .....	3
ITP 217	Professional Entry Preparation .....	3
ITP 245	Applied Interpreting Experience I .....	4
ITP 250*	Applied Interpreting Experience II .....	4
ITP 255*	Applied Interpreting Experience III .....	4
ITP 260*	Interpreting IV .....	4
ITP 261*	Interpreting V .....	4
DRA 112	ASL Theatre .....	5

\* Satisfactory performance (2.5 GPA) required in the previous interpreting class in order to continue in the program.

### RELATED INSTRUCTION

ASL 125	American Deaf Culture .....	5
BUS 260	Applied Business Economics .....	5
DRA 120	Intro to Acting .....	5
ENG 101	Composition .....	5
HUM 105	Intercultural Communication .....	5
SPS 201	Survey of Hearing Impairment .....	5

TOTAL CREDITS 95

### ELECTIVES

ASL 120	Intro to Deaf Studies .....	5
ASL 210	The Linguistics of ASL .....	5
ITP 246/247	Applied Interpreting Support .....	4
ITP 262	Interpreting VI .....	4

## MARINE TECHNOLOGY

Seattle Maritime Academy  
<http://www.sccd.ctc.edu/~maritime/> (206) 782-2647

The Seattle Maritime Academy (SMA) offers training directed towards the workboat industry; commercial fishing; and the Merchant Marine. SMA offers technical vocational training and professional certification preparation. Students may either enroll in the formal certificate programs or pursue maritime training on a part-time basis.

The Marine Engineering Technology program combines practical shipboard experience and engineering courses with additional courses in computation, communication and human relations. Emphasis is placed on the theory, design, operation and maintenance of marine propulsion plants and associated equipment. The student is required to go to sea on a weekly basis aboard the college's training vessels. The program provides the graduate with a background for work in many areas of the maritime industry, both at sea and ashore, as well as in nonmaritime industries such as public utilities.

SMA offers the Marine Engineering Technology curriculum as a 62-credit program with a licensing option. Students successfully completing this program will receive a Certificate in Marine Engineering Technology from Seattle Central Community College, however students may also be issued a U.S. Merchant Mariners document endorsed with the following Qualified Member of the Engine Department (QMED) ratings: Electrician; Oiler; Pumpman; Refrigeration Engineer, and/or Junior Engineer. Graduates are also eligible for licensure as Designated Duty Engineer of Motor Vessels of Not More than 4000 Horsepower (DDE Motor, 4000 HP). Alternatively, students may elect to receive 600 days sea service credit toward one of the following licenses: Third Assistant Engineer of Motor Vehicles; DDE Motor, Unlimited HP; Assistant Engineer (Limited Oceans) of Motor Vehicles; or, Assistant Engineer of Uninspected Fishing Industry Vessels.

The Marine Deck Technology program combines practical shipboard experience and nautical science courses with additional courses in computation, communication and human relations. Emphasis is placed on the theory, design, operation and maintenance of deck equipment and applied navigation skills. Students are required to go to sea on a weekly basis aboard the college's training vessels.

SMA offers the Marine Deck Technology curriculum as a 58-credit program. Students successfully completing this program will be rewarded a Certificate in Marine Deck Technology from Seattle Central Community College. Each graduate successfully completing the program receives eight months of sea service credit towards licenses as: Master of Steam and Motor Vessels of Not More Than 100 Gross Tons, Inland; and Mate of Near Coastal Steam of Motor Vessels of Not More Than 200 Gross Tons. By completing the program the student receives one third of the required sea service credit for any Able Seaman endorsement and satisfies the written examination requirement for the Lifeboatman endorsement. For Lifeboatman, each graduate needs six months of additional qualifying sea service and must pass the practical examination.

*Note: Curriculum is undergoing review by the U.S. Coast Guard and the amount of sea service credit and QMED endorsements are subject to change.*

## MARINE ENGINEERING TECHNOLOGY Certificate

### TECHNICAL SPECIALTY COURSES

MGO 111	Seamanship .....	3
MGO 113	Marine Safety .....	3
MGO 127	Fundamentals of Marine Electricity .....	4
MGO 147	Marine Engineering Practicum/Sea Time .....	6
MGO 177	Adv. Engineering Practicum/Sea Time .....	6
MTS 212	Auxiliary Machinery & Ship Design .....	4
MTS 217	Marine Diesel Engine Maintenance & Operation .....	4
MTS 221	Applied Marine Electricity .....	4
MTS 228	Marine Hydraulics .....	5
MTS 233	Marine Refrigeration .....	5
MTS 257	Advanced Marine Diesel Engines .....	4
MTS 263	Propulsion Systems .....	3
MTS 294	License Seminar .....	2

### RELATED INSTRUCTION

ENG 105	Applied Composition .....	3
MGO 105	Leadership & Management .....	3
MGO 119	Marine Mathematics .....	3

TOTAL CREDITS 62



## Marine Deck Technology

### Certificate

#### TECHNICAL SPECIALTY COURSES

MGO 101	Principles of Marine Mechanics .....	2
MGO 103	Survival Craft .....	2
MGO 111	Seamanship .....	3
MGO 112	Marlinspike .....	2
MGO 113	Marine Safety .....	3
MGO 120	Vessel Maintenance .....	2
MGO 123	Basic Piloting & Navigation .....	3
MGO 124	Basic Vessel Handling .....	2
MGO 133	Seamanship Practicum/Sea Time .....	6
MGO 137	Electronic Navigation .....	2
MGO 140	Nautical Rules of the Road .....	3
MGO 166	Navigation Practicum/Sea Time .....	6
MTS 201	Naval Architecture .....	2
MTS 202	Stability .....	2
MTS 210	Marine Meteorology .....	2
MTS 223	Advanced Piloting & Navigation .....	3
MTS 227	Celestial Navigation .....	4

#### RELATED INSTRUCTION

ENG 105	Applied Composition .....	3
MGO 105	Leadership & Management .....	3
MGO 119	Marine Mathematics .....	3

TOTAL CREDITS 58

#### COMMUNITY SERVICE/INDUSTRY SUPPORT COURSES:

Advanced Shipboard Medicine  
 Basic Electricity for Small Boats & Recreational Boaters  
 Basic Seamanship & Deck Skills  
 Celestial Navigation  
 Coastal Navigation  
 Electronic Navigation  
 Marine Firefighting  
 Marine Law  
 Marine Safety & Survival  
 Net Hanging & Repair for Trawlers  
 Radar  
 Rigging  
 Vessel Handling

#### CERTIFICATION PREPARATORY COURSES:

Designated Duty Engineer, 1000/4000/Unlimited HP  
 GMDSS  
 Lifeboatman  
 Master 100 Ton  
 Master 200/500/1600 Ton  
 Mate 200/500/1600 Ton  
 Qualified Member Engine Department (any & all ratings)  
 Refrigeration Technician (any & all types)  
 Stability for Fishing Vessels  
 Standard First Aid & CPR

## NURSING, DEGREE

Health & Human Services Division (206) 587-4161

The associate degree nursing program prepares men and women to become Registered Nurses. It is approved by the Washington State Board of Nursing and accredited by the National League for Nursing. The program includes general education courses, nursing theory, lab and clinical practice.

New students are accepted into the six-quarter program each fall. Graduates are awarded an A.A.S. degree and are eligible to take the State Board examination to obtain a license as a Registered Nurse. As part of the state licensing requirement, seven hours of HIV/AIDS education instruction is included in curriculum content.

Students are accepted into the program on a first-come, first-served basis, after completion of the five prerequisite non-nursing courses. Any required non-nursing course may be completed before entering the nursing program. For more information contact the division office.

#### PREREQUISITES

ANP/ZOO 113*	Human Anatomy & Physiology I .....	5
BIO 280	Microbiology .....	5
CHE 101	Chemistry .....	5
	<i>(or one year of high school chemistry in the last five years)</i>	
ENG 101	Composition .....	5
PSY 110	General Psychology .....	5

\* ANP/ZOO 113 MUST be taken within 5 years prior to entrance to program.

NOTE: A 2.0 grade point average is required in all nursing, science and related instruction courses in the program.

#### ADVANCED PLACEMENT

Students with nursing education courses within the past three years who meet the prerequisite and grade requirements stated above may be considered for advanced placement. After evaluation of transcripts, advanced placement students will be accepted on a first-come, first-served, space-available basis.

Washington State Licensed Practical Nurses who have satisfied the prerequisites and first-year support courses may enter the second year of the nursing program after successful completion of the one-quarter transition courses, NUR 106, 120, 140, and 162.

## Associate of Applied Science Degree

#### TECHNICAL SPECIALTY COURSES

NUR 100	Pharmacology for Nurses I .....	1
NUR 101	Nursing I: Fundamentals of Nursing .....	4
NUR 102	Nursing IIA: Medical/Surgical Nursing .....	2
NUR 103	Nursing III: Medical/Surgical Nursing .....	3
NUR 110	Trends & Issues I .....	1
NUR 111	Nursing Practice I .....	3
NUR 112	Nursing Practice II .....	3
NUR 113	Nursing Practice III .....	4
NUR 122	Nursing IIB: Psychosocial Nursing I .....	2
NUR 123	Pharmacology for Nurses II .....	1
NUR 135	Pharmacology for Nurses III .....	1

NUR 160	Pathophysiology I .....	1
NUR 161	Pathophysiology II .....	1
NUR 201	Nursing VI: Psychosocial Nursing II .....	2
NUR 204	Nursing IV: Obstetric Nursing .....	3
NUR 205	Nursing V: Pediatric Nursing .....	3
NUR 206	Nursing VII: Medical/Surgical Nursing .....	2
NUR 207	Nursing VIII: Medical/Surgical Nursing .....	3
NUR 211	Nursing Practice VI .....	3
NUR 214	Nursing Practice IV – OR – .....	
NUR 215	Nursing Practice V .....	3
NUR 216	Nursing Practice VII .....	3
NUR 217	Nursing Practice VIII .....	5
NUR 219	OB/Peds Cross-Training: Assessments & Interventions .....	1
NUR 220	Nursing Leadership Seminar .....	1
NUR 230	Trends & Issues II .....	2
NUR 240	Pharmacology for Nurses IV .....	1
NUR 241	Pharmacology for Nurses V .....	1
NUR 260	Pathophysiology III .....	1
NUR 261	Pathophysiology IV .....	1
NUR 285	Gerontology for Nurses .....	1

## RELATED INSTRUCTION

ANP/ZOO 114	Human Anatomy & Physiology II .....	5
ENG 102	Composition .....	5
NTR 150	Human Nutrition .....	5
PSY 206	Developmental Psychology .....	5
* ANP/ZOO 114 MUST be taken within 5 years prior to entrance to program.		

## OPTIONAL

AHE 150	HIV/AIDS Education .....	1
	Computer Course .....	3

TOTAL CREDITS (BASIC RN) 108

## LPN/RN TRANSITION COURSES

The following courses are not a part of the Nursing program. However, a Licensed Practical Nurse must complete them, along with other related instruction courses with a 2.0 or better in order to be eligible for the second year of the nursing program. Call division for more information.

NUR 106	LPN/RN Transition .....	4
NUR 120	LPN/RN Transition: Assessments & Interventions .....	1
NUR 140	Pharmacology for LPN/RN Transition .....	2
NUR 162	Pathophysiology for LPN/RN Transition .....	2

**OPHTHALMIC TECHNICIAN**

Health & Human Services Division (206) 587-4161

Note: This program is presently being re-evaluated. Interested students should contact the division counselor regarding availability of the courses.

This three-quarter evening program prepares students for careers as ophthalmic technicians. It includes an integrated curriculum approach of classroom instruction, laboratory practice, and field-based clinical experience. Students will acquire competencies in the area of ocular science, clinical procedures, instrumentation, basic optical concepts and devices, refraction, and technical proficiency in the use of ocular instruments. Field placement for clinical experience under the supervision of a college instructor is provided in Seattle-area eye clinics and offices. For more information contact the division office.

## Certificate

## TECHNICAL SPECIALTY COURSES

OPH 115	Ocular Science .....	3
OPH 116	Clinic & Office Procedure .....	4
OPH 120	Ocular Instrumentation .....	4
OPH 122	Optical Concepts & Devices .....	2
OPH 130	Refractometry .....	6
OPH 197	Work Experience: Ophthalmic Technician .....	4

## RELATED INSTRUCTION

ANP/ZOO 128	Survey of Anatomy & Physiology .....	5
ENG 101	Composition .....	5

TOTAL CREDITS 33

**SCHOOL OF OPTICIANRY**

School of Opticianry (206) 344-4321  
Health & Human Services Division (206) 587-4161

This two-year program provides an A.A.S. degree in dispensing opticianry and is nationally accredited by the Commission on Opticianry Accreditation (COA). According to the Washington State Administrative Code and licensing guidelines: "The ophthalmic dispenser (dispensing optician) prepares duplications of and dispenses lenses, spectacles, eyeglasses, and/or appurtenances for intended wearers on written prescriptions from physicians or optometrists; and in accordance with such prescriptions, the dispenser measures, adapts, adjusts and fabricates such lenses, spectacles, eyeglasses and/or appurtenances to the human face for the aid or correction of visual or ocular anomalies of the human eye."

Other responsibilities may include business/administrative functions including record maintenance; purchasing/maintenance of supplies and equipment; physiognomy measurements; and preparation of job orders. Graduates must pass a state licensing exam to practice in this field. Requirements for licensure include four hours of HIV/AIDS education certification.

Prerequisites: Eligibility for ENG 101 and MAT 085.

## Associate of Applied Science Degree

### TECHNICAL SPECIALTY COURSES

OPH 100	Orientation to Ophthalmic Dispensing .....	2
OPH 101	Optical Theory I .....	5
OPH 102	Optical Theory II .....	4
OPH 103	Optical Theory III .....	3
OPH 105	Ocular Anatomy & Physiology .....	3
OPH 106	Contact Lens Technology I .....	5
OPH 107	Ophthalmic Dispensing I .....	5
OPH 108	Ophthalmic Dispensing II .....	5
OPH 110	Optical Lab Technology I .....	3
OPH 111	Optical Lab Technology II .....	3
OPH 112	Optical Lab Technology III .....	3
OPH 113	Finishing I .....	6
OPH 197	Work Experience: Opticianry .....	3
OPH 198	Work Experience: Opticianry .....	3
OPH 199	Work Experience: Opticianry .....	3
OPH 203	Contact Lens Technology II .....	5
OPH 204	Contact Lens Technology III .....	6
OPH 205	Contact Lens Technology IV .....	3
OPH 211	Finishing II .....	5
OPH 212	Finishing III .....	5
OPH 215	Benchwork Procedures .....	3
OPH 295	Ophthalmic Dispensing Business I .....	3
OPH 296	Ophthalmic Dispensing Business II .....	3
OPH 297	Ophthalmic Dispensing Business III .....	3
OPH 299	Comprehensive .....	7

### RELATED INSTRUCTION

ANP/ZOO 128	Survey of Anatomy & Physiology .....	5
BUS 101	Intro to Business – OR – .....	
BUS 185	Small Business Management .....	5
BUS 103	Personnel Management .....	3
ENG 101	Composition .....	5
MAT 114	Math Applications for Technicians .....	5
PSY 220	Psychology of Human Relations .....	3
SPE 100	Basic Speech .....	5

TOTAL CREDITS 130

*NOTE: Eligibility for graduation requires a minimum 2.0 GPA in all required technical specialty and related instruction courses.*

## PHOTOGRAPHY, COMMERCIAL

Communications & Design Division (206) 587-3830

This program provides comprehensive training for students who wish to enter the commercial photography industry. The two-year program, leading to an A.A.S. degree, provides training in black/white and color photography, technical lab work, processing and printing, large format camera techniques, contemporary lighting techniques, studio illustration, and digital photography. Course material also covers architectural and industrial photography, editorial and corporate illustration, portraiture, and business management. The program emphasizes the latest techniques and use of technology and designs in the commercial photography field.

## Associate of Applied Science Degree

### TECHNICAL SPECIALTY COURSES

PHO 111	Basic Camera Techniques .....	3
PHO 112	Advanced Camera Techniques .....	3
PHO 121	Basic Science & Photo Lab Procedures .....	4
PHO 122	Photo Lab Procedures .....	3
PHO 125	Photo Lab Workshop I .....	3
PHO 126	Photo Lab Workshop II .....	3
PHO 131	Basic Photo Lighting .....	4
PHO 132	Advanced Photo Lighting .....	3
PHO 210	Digital Imaging .....	3
PHO 211	Basic Commercial Photography .....	4
PHO 213	Photo Illustration II .....	4
PHO 214	Advanced Photo Illustration .....	3
PHO 215	Editorial Photography .....	3
PHO 221	Advanced Photography Techniques .....	3
PHO 225	Photo Lab Workshop III .....	3
PHO 226	Photo Lab Workshop IV .....	3
PHO 231	Basic Color Photography .....	3
PHO 232	Color Photography II .....	3
PHO 233	Advanced Color Photography I .....	3
PHO 234	Advanced Color Photography II .....	3
PHO 243	Studio Management .....	3
PHO 244	Portraiture II .....	3
PHO 245	Portraiture III .....	3
PHO 281	Portfolio Preparation .....	4
PHO 291	Individual Projects .....	4

### RELATED INSTRUCTION

IMC 297, 298, 299*	Integrated Media Communications .....	18
BUS 185	Small Business Management .....	5
IMC 100	Media Production .....	3
IMC 101	Media Publication .....	3
MIC 101	Intro to Microcomputer Applications .....	4
SOC 120	Sociology of the Media .....	3
	Electives .....	12

*Students select 12 credits from any business, social science, math, or science courses.*

*\* IMC 297-299 includes BUS 185, IMC 100, IMC 101, MIC 101 and SOC 120.*

## PROFESSIONAL EDUCATION DEVELOPMENT

Continuing Education Division (206) 587-6934

Teachers, paraprofessionals and individuals planning to enter the teaching profession can enroll in a variety of education courses and summer institutes offered by Seattle Central's Professional Education Development Program. The courses and institutes are designed to improve and expand teaching skills as well as to enable professionals to earn special endorsements on their teaching certificates. A maximum of 15 credits can be transferred to the University of Washington as electives and applied toward A.A. degree requirements.

Teaching certificate endorsement programs are offered on a distance learning basis accompanied with summer institutes allowing a flexible and convenient approach for completion.

### EDUCATION COURSES

EDU 271	ESL Reading & Language Arts .....	5
EDU 272	Integrating ESL in the Mainstream Classroom .....	5
LAN 101	Intro to Linguistics .....	5

### SUMMER INSTITUTE

EDU 298	ESL Methods for Diverse Language Students .....	9
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## RESPIRATORY CARE

Health & Human Services Division (206) 587-4161

Respiratory care is an allied health specialty in the treatment and management of patients with cardiopulmonary disorders. The seven-quarter program includes the study of the therapeutic use of medical gases, medications, aerosols, lung drainage, ventilatory support, cardiopulmonary resuscitation, airway management, respiratory disease management and diagnostic testing. Under the direction of the physician, the respiratory care practitioner works with other health professionals to deliver effective health care.

The program offers an A.A.S. degree and is fully accredited by the Committee on Accreditation for Respiratory Care. Because the A.A.S. degree may not transfer, students transferring to a four-year institution should take college transfer English and science courses. Graduates are eligible for licensure as Respiratory Care Practitioners in Washington state, and are also eligible and prepared for the National Board Registered Therapist credentialing exams. Washington state licensure requires seven hours of HIV/AIDS education which is included in curriculum content. New classes begin fall quarter only. For advanced placement consideration, contact the division office for specific requirements. Prerequisite: MAT 085 and eligibility for ENG 101.

## Associate of Applied Science Degree

### TECHNICAL SPECIALTY COURSES

RCP 101	Respiratory Care Orientation .....	1
RCP 110	Intro to Respiratory Care .....	2
RCP 112	Applied Microbiology .....	2
RCP 114	Respiratory Care Fundamentals I .....	4
RCP 115	Pharmacology for Respiratory Care I .....	1
RCP 120	Clinical Practice I .....	4
RCP 121	Respiratory Care Seminar .....	1
RCP 123	Pathophysiology for Respiratory Care I .....	1
RCP 124	Respiratory Care Fundamentals II .....	5
RCP 125	Pharmacology for Respiratory Care II .....	1
RCP 130	Clinical Practice II .....	5
RCP 133	Pathophysiology for Respiratory Care II .....	1
RCP 134	Respiratory Care Fundamentals III .....	5
RCP 135	Pharmacology for Respiratory Care III .....	1
RCP 137	Cardiopulmonary Anatomy & Physiology .....	4
RCP 240	Clinical Practice III .....	4
RCP 241	Respiratory Care of Critically Ill Adults .....	2
RCP 243	Pathophysiology for Respiratory Care III .....	1
RCP 244	Respiratory Care Fundamentals IV .....	3
RCP 245	Pharmacology for Respiratory Care IV .....	1
RCP 250	Clinical Practice IV .....	6
RCP 251	Respiratory Care of Infants & Children .....	3
RCP 253	Pathophysiology for Respiratory Care IV .....	1
RCP 254	Respiratory Care Fundamentals V .....	3
RCP 260	Clinical Practice V .....	6
RCP 264	Respiratory Care Fundamentals VI .....	3
RCP 270	Clinical Practice VI .....	6
RCP 272	Comprehensive Review of Respiratory Care .....	4
RCP 274	Pulmonary Rehabilitation & Home Care .....	2
RCP 276	Advanced Patient Assessment .....	3

### RELATED INSTRUCTION

AHE 150	HIV/AIDS Education .....	1
ANP/ZOO 128	Survey of Human Anatomy & Physiology .....	5
CHE 100	Chemistry - OR -	
CHE 101	General Chemistry .....	5
ENG 101	Composition .....	5
ENG 102	Composition .....	5
PSY 110	General Psychology - OR -	
PSY 206	Developmental Psychology .....	5

TOTAL CREDITS 112

*NOTE: Eligibility for graduation requires a minimum 2.0 GPA in all technical specialty and related instruction courses.*

## SERVICE LEARNING

Cooperative Education & Career Placement Division (206) 587-5422

Service-Learning is an educational program that combines community involvement with academic instruction. The program works to link service learning options to specific classes as either a requirement or an option. Faculty determine course requirements and hours. Advantages of service-learning include the opportunity to enhance understanding of course content, build experience for a resumé, explore career options, and earn college credit. Service Learning is specifically integrated into certain courses and programs. Please contact the Service Learning department for more information.

## SOCIAL & HUMAN SERVICES

Health & Human Services Division (206) 587-6900

This program provides training for employment in the social and human service field. It helps develop the professional values, skills and knowledge necessary to assist individuals with personal, interpersonal, and situational problems. The first year offers training in communication, human problems, community resources, interviewing and counseling, group dynamics and social change. The second year provides opportunity for specialization through field placement, supplemental social science courses and specialized coursework.

Three options to the Social and Human Services degree are the Chemical Dependency Specialist certificate, the Child and Family Studies certificate, and the Community Health Advocate certificate. For information on entrance requirements and additional coursework, contact the division.

Prerequisite: Eligibility for ENG 101 and MAT 084.

### Associate of Applied Science Degree

HUMAN SERVICES CORE	30
SHS 100 Intro to Human Services .....	5
SHS 103 Survey of Institutions .....	5
SHS 106 Principles of Interviewing & Counseling .....	5
SHS 108 Group Dynamics & Counseling .....	5
SHS 197 Field Placement in Human Services .....	3
SHS 198 Field Placement in Human Services .....	3
SHS 199 Field Placement in Human Services .....	4
HUMAN SERVICES SPECIALIZATIONS	30
<i>(Select from the following classes)</i>	
SHS 150 AIDS Workshop .....	1
SHS 200 Advanced Counseling Techniques .....	4
SHS 205 Crisis Management & Intervention .....	3
SHS 207 Behavior Management .....	3
SHS 210 Multicultural Counseling .....	3
SHS 215 Adolescent Development & Treatment .....	5
SHS 231 Physiology/Pharmacology of Chemical Dependency .....	3
SHS 232 Chemical Dependency & the Family .....	3
SHS 233 Chemical Dependency Counseling .....	5
SHS 234 Community Health Advocacy .....	3
SHS 235 Intro to Chemical Dependency .....	5
SHS 241 Residential Services & Community Resources in Mental Health .....	5
SHS 242 Mental Health Diagnosis in Chemical Dependency & Other Human Service Settings .....	5
SHS 245 Mental Health Overview .....	3
SHS 246 Community Rehabilitation in Mental Health .....	5
SHS 250 Client & Community Advocacy .....	4
SHS 255 Dual Diagnosis (MICA): Treatment Issues & Services .....	3
SHS 265 Management & Supervision .....	5
SHS 270 Law & Ethics in Chemical Dependency .....	3
SHS 275 Chemical Dependency & Domestic Violence .....	3
SHS 280 Case Management .....	3

SHS 296*	Human Services Workshop .....	1
SHS 297*	Human Services Workshop .....	2
SHS 298*	Human Services Workshop .....	3
SHS 299	Independent Study or Research .....	1-5

\* Maximum of 3 credits may be used towards degree.

RELATED INSTRUCTION		30
ENG 101	Composition .....	5
ENG 102	Composition .....	5
PSY 110	General Psychology .....	5
SOC 110	Survey of Sociology .....	5
SPE 100	Basic Speech .....	5
	Social Science/Humanities Elective .....	5

TOTAL CREDITS		90
<i>Specific chemical dependency classes required for Washington State Chemical Dependency Counselor qualifications are listed in the Chemical Dependency Specialist brochure.</i>		
<i>Eligibility for graduation requires a minimum 2.0 GPA in all required technical specialty and related instruction courses.</i>		

## CHILD & FAMILY STUDIES

The Child & Family Studies option provides academic preparation for students interested in a wide range of employment opportunities working with children and their families. Students who wish to make a positive impact in their field and in the lives of children and families will find this program challenging and rewarding.

### Certificate

#### SPECIALIZATION CERTIFICATE COURSES

SHS 103	Survey of Institutions .....	5
SHS 106	Principles of Interviewing & Counseling - OR -	
SHS 108	Group Dynamics & Counseling .....	5
SHS 197	Field Placement in the Human Services .....	3

#### RELATED INSTRUCTION COURSES

ENG 101	Composition .....	5
HUM 105	Intercultural Communication .....	5
PSY 206	Developmental Psychology .....	5
SOC 110	Survey of Sociology - OR -	
SOC 250	Marriage, Family & Intimate Relationships .....	5

#### CFS SPECIALIZATION AREA

<i>NOTE: Students must take at least 12 credits from the below listed specialization area.</i>		
CFS 110	Designing Model Learning Environments .....	3
CFS 120	Planning for Children's Holistic Development .....	3
CFS 130	Planning for & Guiding Children's Social & Emotional Development .....	3
CFS 145	Understanding & Working with School-Age Children .....	3
CFS 155	Understanding & Working with Adolescents .....	3
CFS 180	Planning for & Guiding School-Age & Youth's Social & Emotional Development .....	3

CFS 208	Designing Model Environments for School-Age Children & Youth .....	3
CFS 215	Science & Technology in School-Age & Youth Programs .....	2
CFS 223	Physical Development in School-Age & Youth Programs .....	2
CFS 225	Assessment/Programming .....	3
CFS 228	Childhood & Adolescent Sexuality & Education .....	3
CFS 245	Parent Education for All Our Families .....	1-5
CFS 252	Violence Prevention & Community Development with Children, Youth & Families .....	3
CFS 263	Working with Children with Disabilities .....	5
CFS 270	Child & Family Health .....	3
CFS 280	Methods for Cultural Relevancy/Anti-Bias: Strategies for Children & Families .....	3
CFS 284	Literacy Development for Children & their Families .....	1-5
CFS 290	Budget & Finance .....	1-4
CFS 294	Fundamentals of Management .....	5
CFS 296	Personnel & Supervision .....	1-4
CFS 299	Seminars .....	1-5

TOTAL CREDITS	45
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## CHEMICAL DEPENDENCY SPECIALIST

This program includes an integrated curriculum approach of classroom instruction and field-based clinical experience. Students will acquire competencies in the areas of interviewing, group dynamics, case management, physiology and pharmacology related to chemical dependency, the impact of chemical dependency on family members, and specific counseling interventions for working with chemical dependent clients. Courses meet the State of Washington Division of Alcohol and Substance Abuse requirements for chemical dependency counselor certification. Courses are offered day and evening. For further information contact the division office.

Prerequisite: Eligibility for ENG 101 and MAT 084.

*NOTE: Additional courses may be needed to meet state certification requirements. Students should consult the division counselor before enrolling.*

### Certificate

#### CORE COURSES

SHS 106	Principles of Interviewing & Counseling .....	5
SHS 108*	Group Dynamics & Counseling .....	5

#### TECHNICAL SPECIALTY COURSES

SHS 150*	HIV/AIDS Workshop .....	1
SHS 210*	Multicultural Counseling .....	3
	- OR -	
SHS 215*	Adolescent Development & Treatment .....	5
	- OR -	
SHS 231*	Physiology/Pharmacology of Chemical Dependency .....	3
SHS 232*	Chemical Dependency & the Family .....	3
SHS 233*	Chemical Dependency Counseling .....	5
SHS 235*	Intro to Chemical Dependency .....	5

SHS 270*	Law & Ethics in Chemical Dependency .....	3
SHS 280*	Case Management .....	3
SHS 296*	Human Services Workshop .....	1-3
	<i>(in the topic areas of Multicultural Counseling, Adolescent Assessment &amp; Relapse Prevention)</i>	

FIELD PLACEMENT COURSES

CDS 197	Field Placement in Human Services .....	3
CDS 198	Field Placement in Human Services .....	3
CDS 199	Field Placement in Human Services .....	4

GENERAL EDUCATION COURSES

ENG 101	Composition .....	5
PSY 110	General Psychology .....	5
PSY 206	Developmental Psychology (Lifespan) - OR-	
PSY 207	Developmental Psychology (Adolescent) .....	5

TOTAL CREDITS 66-71

*Eligibility for graduation requires a minimum 2.0 GPA in all required technical specialty and related instruction courses.*

*\* These courses meet current minimum state requirements for registration as Chemical Dependency Counselors with the Department of Health. In addition, an Associate Degree or its academic equivalent in any area, and 2,500 clock hours of qualified internship are required.*

**COMMUNITY HEALTH ADVOCATE CERTIFICATE**

This certificate will prepare students to work in the Health Care industry as advocates and resource specialists for those who need access to health care services. Upon certification, students will qualify for outreach/advocate positions in community-based and public health organizations, and HMOs. The Community Health Advocate program is a partnership between Seattle Central Community College and community-based organizations, public health organizations and HMOs.

Certificate

SPECIALIZATION CERTIFICATE COURSES

SHS 106	Principles of Interviewing & Counseling .....	5
SHS 234	Community Health Advocacy .....	3
SHS 296	Human Services Workshops: Job Readiness Seminar .....	1
CHA 197	Cooperative Work Experience .....	5

RELATED INSTRUCTION COURSES

ENG 101	Composition .....	5
HUM 105	Cultural Relevancy & Anti-Bias .....	5

TOTAL CREDITS 24

**SURGICAL TECHNOLOGY**

Health & Human Services Division (206) 587-6900

This three-quarter program prepares men and women to share in the responsibility of the operating room team in the care of the patient requiring surgery. The surgical technologist is at all times under the supervision of the physician and/or registered nurse.

The program consists of instruction in the basic sciences, medical terminology, surgical functions in the operating rooms, operating room equipment and aseptic techniques, and is nationally accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The clinical practice throughout the program will be coordinated by the instructor at the college and take place in various hospitals in the Seattle area. Graduation requirements include a minimum 2.0 GPA in each surgical technology course and all related instruction. Entry is during the fall quarter only. For more information contact the division office.

Prerequisites: Eligibility for ENG 101 and MAT 085.

Certificate

TECHNICAL SPECIALTY COURSES

STT 111	Surgical Technology Lab .....	5
STT 113	Surgical Technology I .....	8
STT 115	Clinical Orientation .....	2
STT 123	Surgical Technology II .....	14
STT 125	Clinical Practice I .....	5
STT 133	Surgical Technology III .....	5
STT 135	Clinical Practice II .....	8

RELATED INSTRUCTION

AHE 117	Medical Terminology I .....	1
AHE 127	Medical Terminology II .....	1
AHE 137	Medical Terminology III .....	1
ANP/ZOO 128	Survey of Anatomy & Physiology .....	5
ENG 101	Composition .....	5

TOTAL CREDITS 60

## TECHNICAL COMMUNICATIONS

Communications & Design Division (206) 587-3830

The Technical Communications curriculum is a two-year, AA/AAS degree program focusing on comprehensive language skills. The program prepares students to enter mid-level to entry-level positions as freelance professionals or salaried technicians in fields including: Web Engineer, Webmaster, Technical Writer, Help Writer, Technical/Developmental Editor, Copy Editor, Technical Editing Assistant, and Document Manager. Because of a heavy emphasis on the development of strong language skills, students need to complete ENG 101/102, BUS 131, and MIC 101 prior to starting this program's technical specialty courses.

### Associate of Applied Science Degree

#### TECHNICAL SPECIALTY COURSES

TEC 110	General Editing .....	4
TEC 120	Principles of Developmental Editing .....	5
TEC 130	Style Guides & Visual Basic .....	4
TEC 140	Mapping Information/Architecture .....	4
TEC 150	Specialization .....	4
TEC 197	Work-Based Learning – OR –	
TEC 299	Independent Study .....	3
TEC 200	Senior Seminar I .....	5
TEC 220	Senior Seminar II .....	5
TEC 230	Technical Communications Seminar .....	4

#### RELATED INSTRUCTION

CIS 136	UNIX I - OR -	
CIS 142	C Programming - OR -	
CIS 172	Visual Basic I .....	5
DES 251	Multimedia I .....	3
ENG 294	Copy Editing/Writing I .....	5
ENG 295	Copy Editing/Writing II .....	5
HUM 105	Intercultural Communications .....	5
MAT 107	Mathematics: A Practical Art .....	5
MIC 104	Using Computers .....	2
MIC 110	Program Design & Development .....	4
PHI 120	Intro to Logic .....	5

SPECIALTY ELECTIVES 14

TOTAL CREDITS 91

## TRAVEL/STUDY COURSES

Cooperative Education & Career Placement (206) 587-5422

Travel/Study Courses provide students with a unique opportunity to earn credits for various travel/study experiences in an international setting. Students can earn credit for language enhancement, research-based, or work/internship/volunteer activities. Because these are contract courses, students are charged a per-course fee.

EDU 291	Using the World as a Classroom .....	5-10
ITL 197	International Cooperative Education .....	5
ITL 198	International Cooperative Education .....	5
HUM 289	Chinese Language Enhancement .....	5-10
HUM 290	German Language Enhancement .....	5-10
HUM 291	Spanish Language Enhancement .....	5-10
HUM 292	French Language Enhancement .....	5-10
HUM 293	Italian Language Enhancement .....	5-10
HUM 297	Japanese Language Enhancement .....	5-10
HUM 298	Portuguese Language Enhancement .....	5-10
SCI 296	Natural History: Tropical Ecosystems in Costa Rica .....	5-10
SCI 297	Natural History: Tropical Ecosystems .....	5-10
SSC 297	Travel/Study Experience .....	5-10



## WIRELESS COMMUNICATIONS TECHNOLOGY

Communications & Design Division (206) 587-3830

This program will qualify and prepare students for employment in the wireless communications industry. The two-year technologically-based curriculum provides a comprehensive communications skill foundation and applied theoretical foundation in mathematics, physics/chemistry, electronics, social sciences, business/organizational theory, computer configuration and applications. Instruction includes RF Transmissions and RF propagation as well as critical thinking, logic and problem-solving (inductive/deductive/intuitive).

### Associate of Applied Science Degree

#### TECHNICAL SPECIALTY COURSES

EET 161	DC Principles of Electronics .....	5
EET 163	Solid State Electronics I .....	5
WCT 101	Intro to Wireless Systems .....	4
WCT 120	Information Systems .....	4
WCT 121	Engineering Electromagnetics I .....	5
WCT 122	Engineering Electromagnetics II .....	5
WCT 197	Work Experience .....	5
WCT 199	Seminar I, II, & III .....	4
WCT 225	Signaling .....	5
WCT 227	RF Modulation .....	4
WCT 230	Network Transport .....	4
WCT 231	Wireless Engineering .....	5
WCT 232	Air Interface Protocols .....	5

#### RELATED INSTRUCTION

BUS 101	Intro to Business .....	5
	- OR -	
BUS 102	Business Organization & Management .....	3
CIS 290	Intro to UNIX .....	3
ENG 101	Composition .....	5
HUM 105	Intercultural Communication .....	5
MAT 116	Math Applications .....	5
MAT 117	Elements of Calculus .....	5
MIC 101	Intro to Microcomputer Applications .....	4

TOTAL CREDITS 90-92

## WOOD CONSTRUCTION

2310 South Lane, Seattle, WA 98144 (206)587-5460

The Wood Construction Program prepares students for employment in the following three areas:

- Cabinetmaking & Fine Woodworking
- Carpentry
- Marine Carpentry (Boatbuilding)

All students enrolling in any full-time Wood Construction Program are required to complete 14 credits of related instruction course work in math, communication, computer computation, human relations, and first aid.

## CABINETMAKING & FINE WOODWORKING

### Certificate

This program prepares students for entry-level employment in the cabinetmaking and fine woodworking trades. The curriculum combines technical information with practical shop applications. Students learn to build fine furnishings with precision and steadiness. A series of assigned projects helps the students learn the tools and techniques of the cabinetmaking trade.

WCO 110	Intro to Professional Woodworking .....	18
WCO 150	Basic layout, blueprints, cabinet construction, safe shop practices .....	18
WCO 150	Advanced layout, blueprints, machinery, hardware, laminates, machine safety .....	18
WCO 150	Advanced layout, blueprints, cabinet construction, machinery, hardware, laminates, on-the-job safety .....	18
WCO 150	Student optional projects w/permission of instructor .....	18
WCO 150	Selected class projects (Optional - Instructor approval required) .....	18

#### RELATED INSTRUCTION\*

		14
ENG 105	Written Communication .....	3
MAT 110	Applied Math for Technicians .....	3
MIC 103	Intro to Computers/Macintosh .....	3
PSY 220	Psychology of Human Relations .....	3
WCO 120	Construction & Maritime First Aid .....	2

\*Students who may have completed these courses are required to register for 14 credits of alternative related instruction courses (3 computation; 6 communication; 2 computers; 1-2 human relations).

TOTAL CREDITS 104

**CARPENTRY**

## Certificate

This program prepares students for entry-level carpentry positions in the home construction, remodeling, and light commercial construction trades. The units of study cover the major job responsibilities of a carpenter in the trade. Hands-on shop learning is emphasized and supplemented by classroom instruction. Often the Carpentry program students build a house or a complete structure each school year.

WCO 110	Intro to Professional Woodworking .....	18
WCO 140	Concrete forms & footings, floor systems, safety on the job ..	18
WCO 140	General frame construction, roof framing, safe staging, working at heights .....	18
WCO 140	Finish work, setting windows & doors, machine safety .....	18
WCO 140	Selected class projects (Optional - Instructor permission required) .....	18

RELATED INSTRUCTION*		14
ENG 105	Written Communication .....	3
MAT 110	Applied Math for Technicians .....	3
MIC 103	Intro to Computers/Macintosh .....	3
PSY 220	Psychology of Human Relations .....	3
WCO 120	Construction & Maritime First Aid .....	2

*\*Students who have completed these courses are required to register for 14 credits of alternative related instruction (3 computation; 6 communication; 2 computers; 1-2 human relations).*

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TOTAL CREDITS 86

**WOOD CONSTRUCTION**

## Associate of Applied Science Degree

Completion of certificate requirements for the Cabinetry and Carpentry programs (104 or 86 credits), plus 16 credits of related instruction. For an A.A.S. in Marine Carpentry, please contact the division at (206) 587-5460 for details.

RELATED INSTRUCTION		16
MIC 203	Intro to CADD .....	3
WCO 160	Architectural Blueprint Reading & Cost Estimating for the Building Trades .....	3
WCO 164	Roof Framing & Stairbuilding .....	2
WCO 167	Fine Furniture Making .....	4
WCO 197	Work Experience – Wood Construction .....	5-15
	<i>or any ACC, BUS, CSC, HDC, MIC, MTS, OFO, TDR or liberal arts course</i>	

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TOTAL CREDITS 102-120

**MARINE CARPENTRY (BOATBUILDING)**

## Certificate

This program prepares students for entry into the boatbuilding, boat repair and related industries. The course curriculum includes lofting and layout, fiberglass lay-up and repair, spray gun technique, wood boat construction and repair, and interior and exterior joinery. Students learn the craft by working on assigned projects. The class and shop atmosphere are similar to an actual boatbuilding shop.

WCO 110	Intro to Professional Woodworking .....	18
WCO 130	Lofting, layout, patterns, elements of design, basic joinery, safe shop practices, bevels, & the bandsaw. ....	18
WCO 130	Fiberglass lay-up, safe shop practices w/fiberglass materials, personal safety, & fiberglass repair. ....	18
WCO 130	Fiberglass fitting out, machine safety, fiberglass repair, spray gun use & maintenance. ....	18
WCO 130	Wood boat construction, estimating & bidding, shop practices, safe use of equipment & compounds. ....	18
WCO 130	Wood boat construction, fitting out, material selection, interior & exterior joinery. ....	18
WCO 299	(2-quarter option) Students may select special projects of their choosing or instructor may assign a project to help a student who needs more time to develop specific boatbuilding skills. ....	15

RELATED INSTRUCTION*		14
ENG 105	Written Communication .....	3
MAT 110	Applied Math for Technicians .....	3
PSY 220	Psychology of Human Relations .....	3
WCO 120	Construction & Maritime First Aid .....	2
	<i>*Students who have completed these courses are required to register for 14 credits of alternative general education courses (3 computation; 6 communication; 2 human relations; 2 computers).</i>	

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TOTAL CREDITS 119

## WORK EXPERIENCE / COOPERATIVE EDUCATION

Cooperative Education & Career Placement (206) 587-5422

Cooperative Education (Co-op) is a “work for credit” program offered to students enrolled in college transfer or professional-technical programs. Academic credit is earned for learning that occurs on the job. Students may earn credit for jobs, paid or unpaid internships, or volunteer service in the community. Co-op is a coordinated effort between the student, the employing organization, and the college.

Advantages of Co-op include the opportunity to explore or clarify career choices, acquire career-related experience, improve existing skills or learn new skills applicable to future employment, and earn college credit.

Permission required. Contact the Cooperative Education Office for additional information.

ACC 197	Accounting .....	2-5
ACC 197	Apparel Design .....	2-5
ADS 197	Apparel Design .....	2-8
AHE 197	Allied Health .....	2-5
AHE 198	Allied Health .....	2-5
AHE 199	Allied Health .....	2-5
BIO 197	Internship in Biotechnology .....	3-5
BUS 197	Business Occupations .....	2-15
CDS 197	Work Experience: Chemical Dependency .....	2-5
CDS 198	Work Experience: Chemical Dependency .....	2-5
CDS 199	Work Experience: Chemical Dependency .....	2-5
CHA 197	Work Experience: Community Health Advocate .....	2-5
CHE 197	Chemistry .....	2-5
CIS 197	Computer Information Systems .....	2-5
CMS 197	Community Service .....	2-3
CMS 198	Community Service .....	2-3

CMS 199	Community Service .....	2-3
COM 197	Video Communications .....	2-5
CWE 197	Co-op Work Experience .....	2-15
CWE 198	Co-op Work Experience .....	2-15
CWE 199	Co-op Work Experience .....	2-15
DES 197	Graphic Design/Illustration .....	2-5
EDU 197	Education .....	2-5
EDU 198	Education .....	2-5
EDU 199	Education .....	2-5
GPT 197	Graphic Imaging/Printing Technology .....	2-5
HDC 197	Leadership Practice & Application .....	2-3
HOS 197	Culinary Arts .....	2-15
HUM 197	Humanities .....	2-15
ITL 197	International Cooperative Education .....	5
ITL 198	International Cooperative Education .....	5
OPH 197	Opticianry .....	2-5
OPH 198	Opticianry .....	2-5
OPH 199	Opticianry .....	2-5
PHO 197	Photography .....	2-5
RCP 196	Respiratory Care .....	2-5
RCP 197	Respiratory Care .....	2-5
RCP 198	Respiratory Care .....	2-5
RCP 199	Respiratory Care .....	2-5
SAL 197	Sales Occupations .....	2-15
SCI 197	Science .....	2-15
SHS 197	Work Experience: Social & Human Services .....	2-5
SHS 198	Work Experience: Social & Human Services .....	2-5
SHS 199	Work Experience: Social & Human Services .....	2-5
SSC 197	Social Science .....	2-15
WCO 197	Wood Construction .....	2-15
WCT 197	Wireless Communications .....	2-8

# Administration & Faculty

## OFFICE OF THE PRESIDENT

CHARLESH MITCHELL, President/Vice Chancellor: B.A., University of Washington; M.Ed., Seattle University; Ed.D., Brigham Young University.

SUE BEAN, Director, Development: B.A., University of Washington.

DANNY HOWE, Director, Communications: B.A., University of Washington; M.S.W., University of Washington.

TINA LEIMER, Director, Planning and Research: B.A., M.A., University of Houston.

KATHRYN WOODLEY, Affirmative Action Officer/Personnel Representative.

CAROLYN S. YEAGER, Executive Assistant to the President.

## STUDENT SERVICES

LORIS BLUE, Dean, Enrollment Services: B.A., Seattle University; M.Ed., University of Washington.

BEAKIYOHARA, Dean, Student Development: B.A., M.A., University of Washington.

JOAN M. RAY, Assistant Dean of Financial Aid and Student Services: B.A., California State University, Los Angeles; M.Ed., Seattle University.

RICARDO APACIBLE, Project Director, Student Academic Assistance: B.A., M.A., University of St. Thomas; M. Ed., University of Washington.

ELIZABETH BALDIZAN, Registrar: B.A., University of Northern Colorado; M.A., University of New Mexico; Ed.D., University of Nevada, Las Vegas.

RICARDO BALDIZAN, Manager, Student Activities Center: B.S., M.S., University of New Mexico.

LEXIE EVANS, Director, Student Leadership: B.A., University of Washington; M.A., Western Washington University.

RONALD KLINE, Manager, Testing Office: B.S., University of Washington; M.Ed., Western Washington University.

MARTHA PRINCE, Manager, Wellness Center: B.A., Florida State University; M.Ed., Springfield College.

CHERYL L. REID, Director, Financial Aid: B.A., University of Puget Sound; M.A., Seattle University.

STEPHEN TONTONI, Manager, Center for Deaf Students: A.A., Seattle Central Community College.

CARLOS WILLIAMS, Registrar/Director, Admissions: B.A., University of Washington; M.A., Seattle University.

## ADMINISTRATIVE SERVICES

GEORGE GARY, Director, Administrative Services: B.S., Long Island University.

DICK COULTER, Director, Auxiliary Services: M.S., Cornell University.

JEFFREY WATTS, Director, Facilities, Planning and Operations.

## OFFICE OF INSTRUCTION

RON HAMBERG, Vice President, Instruction: B.A., B.S., University of Minnesota; M.Ed., Ph.D., University of Washington.

JAMES M. HASSELBALCH, Director, Seattle Maritime Academy: B.S., U.S. Coast Guard Academy; M.S., Naval Postgraduate School.

ANDREA INSLEY, Associate Dean, International Education Programs: B.A., M.A., University of Washington.

WAI-FONG LEE, Associate Dean, Instructional Resource Services: B.S.Sc., Chinese University of Hong Kong; M.A., M.L.S., University of Hawaii; Ph.D., University of Arizona.

ANDRE LOH, Assistant Dean, Basic Studies Division: B.A., Whitman College; M.A., Ph.C., University of Washington.

JULIE LUTZ, Associate Dean, Science and Math Division: B.A., San Diego State University; M.S., Ph.D., University of Illinois.

JOHN J. MCMAHON, Associate Dean, Business and Communications Division: B.S., Providence College; M.S., University of Hawaii; Ph.D., Oregon State University.

DONNA MILLER-PARKER, Director, ABLE Network and Northwest Regional Literacy Resource Center: M.A., Seattle University.

MYRTLE MITCHELL, Dean, Professional Technical Education: B.S., M.S.N., Ph.D., University of Washington; B.S., Seattle Pacific University.

GREG MOWRER, Associate Dean, Hospitality/Culinary Arts.

A. BARRETTO OGILVIE, Dean, Continuing Education/Special Programs: B.A., University of Washington; M.A., Ed.D., Seattle University.

CHERYL ROBERTS, Associate Dean, Health and Human Services Division: B.A., Seattle University; M.A., The Ohio State University; Ed.D., Seattle University.

BOB TARPCHINOFF, Assistant Dean, Distance Learning: B.A., University of Toledo; M.A., Bowling Green State University.

JAN WEST, Associate Dean, Languages and Cultures Division: B.S., University of Wisconsin; M.Ed., University of Cincinnati.

## THE FACULTY

AL-MADANI, MOHAMMAD, Anthropology: B.S., Muskingum; M.A., Oregon State University; Ph.D., University of Florida.

ALVING, WENDY, Biology: B.S., M.S., Washington State University.

ARAGON, CONNIE, Business Information Technology: B.A., University of New Mexico; M.Ed., Ed.D., University of Washington; Professional Vocational/Technical Teaching Certificate.

AREVALO, MARGARET, Graphic Design & Illustration: B.Ed., Seattle University; Certificate, San Francisco Art Institute; Professional Vocational/Technical Teaching Certificate.

ARMITAGE, LEIGHTON L., Institute of English: B.A., M.A.T., Brown University.

AZPITARTE, MARIA, Associate Degree Nursing: R.N., B.S.N., Seattle University; M.S.N., University of Portland; Community College Vocational Certificate.

BARRIE, DONALD J., Art: B.F.A., M.F.A., University of Washington.

BARTLETT, JOANNE, Mathematics: B.A. and Teaching Certificate, University of Washington.

BELIEU, RANDY, Nursing: B.S.N., University of Washington; M.S.N., F.N.P., Seattle Pacific University.

BERNARD, REGIS, Pastry Cook Diploma, Versailles, France; Brevet de Maitrise, Professional School of Pastry; Rue Jean Ferandis, Paris.

BIELAWSKI, DEBORAH, Physics: B.S., B.A., Seattle Pacific University; M.S., University of Washington.

BLACK, CLAUDE, Accounting: B.A., University of Washington; M.B.A., City University.

BOON, REBECCA A., ESL: B.A., Sangamon State University; M.A., School for International Training.

BORGATTI, DAVID J., Wood Construction: Community College Vocational Certificate, B.S., University of Miami.

BOTZ, DANIEL D., Mathematics: B.S., M.S., Western Washington University.

BOYLE, MICHAEL R., Biology: B.S., M.S., Ph.D., University of California at San Diego.

BRODSKY-PORGES, BARBARA, Parent Education: B.A., University of California, Los Angeles; M.S.W., Virginia Commonwealth University; Community College Vocational Certificate.

BRUNELLE, MINAKO, Japanese: B.A., Seattle University.

BRUNETTE, KATHRYN, English: B.A., Western Washington University; M.A., Portland State University.

BURKE, DOLORES, Biology/Botany: B.S., St. Joseph's College; M.T. (ASCP Certification), New Britain General Hospital; M.S., University of Minnesota.

BURTON, DICK, Philosophy: B.A., Whitman College; M.A., Ph.D., Purdue University.

BYSTROM, VALERIEA., English: B.A., M.A., Ph.D., University of Washington.

CADWELL, MARK, Wood Construction: Community College Vocational Certificate, B.S., M.S., Illinois State University.

CALES, DIANA M., ESL: B.A., St. Martin's College; M.Ed., University of Washington.

CAMPBELL, ELIZABETH, Biology/Oceanography: B.A., Smith College; M.A., Boston University.

CAUTER, JAMES, Music: B.A., California State University at Hayward; M.A., San Francisco State University.

CELLMAN, CAROL, ESL: B.A., University of Denver; M.A., University of Wisconsin.

CHAN, IAN, Librarian: B.A., Wheaton College; M.L.S., University of Pittsburgh.

CHEN, WEIAN, ESL: B.A., Shanghai Teacher's University; M.A., University of Idaho.

CHIN, SUSAN, Math: B.A., Whitman College; B.A., M.S., University of Washington.

CIOK, EDWARD, Institute of English: B.S., St. Peter's College; M.S., State University College of Buffalo.

CLAASEN, GAIL, Institute of English: B.A., Evangel College; M.A., Biola University.

CLAYTON, GARY, School of Opticianry: Master of Ophthalmic Optics; American Board of Opticianry, Certified Optician; B.S., City University; Community College Vocational Certificate.

COHEN, LAUREN, English: B.A., University of Washington; M.A., George Washington University; Ed.D., Seattle University.

COLE, S. ALLIS, ESL: B.A., M.A., Southern Oregon State College.

COLE, DOUGLAS, English: B.A., San Diego State University; M.A., Western Washington University.

COLLINS, MINNIE, English: B.A., Virginia Union University; M.A., George Washington University.

CONGER, STEVE, Microcomputer Management: B.A., Gonzaga University; M.A., University of Idaho; Professional Vocational/Technical Teaching Certificate.

COSTA, CRAIG, Adult Basic Education: B.A., Whitworth College.

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