

1972

## Seattle Pacific College Catalog 1972-1973

Seattle Pacific University

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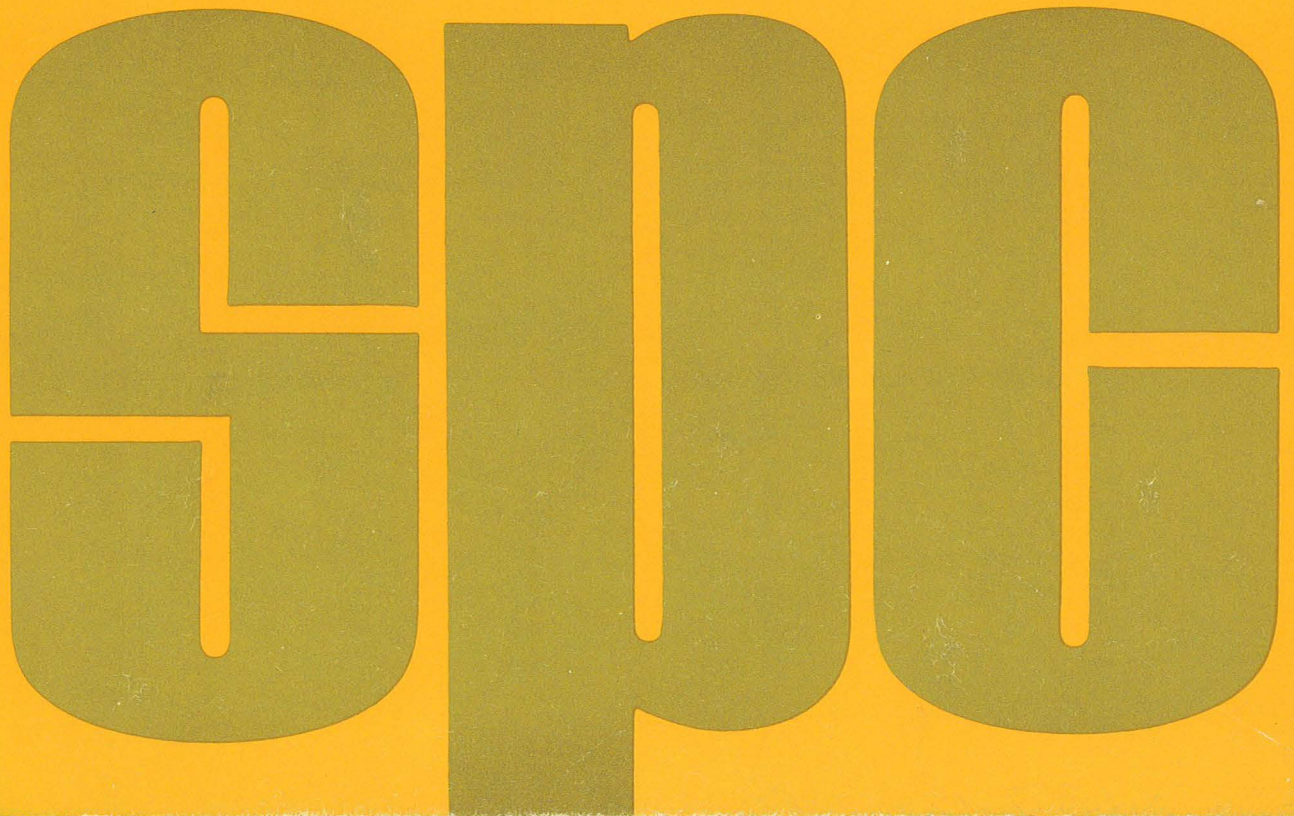
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*Jim Brighton*

1972/73

Seattle Pacific College General Bulletin



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# Seattle Pacific College Catalog 1972/73

STATEMENT OF EDUCATIONAL OBJECTIVES

DESCRIPTION OF COURSES, FACILITIES AND REQUIREMENTS

REGISTER OF ADMINISTRATIVE OFFICERS AND FACULTY



Operated under the auspices of the Free Methodist Church as a service to young people, regardless of denomination, who desire a college education that is academically sound and distinctly Christian. Founded 1891.

## Seattle Pacific College

Third Avenue West at West Nickerson  
Seattle, Washington 98119  
ATwater 4-7700

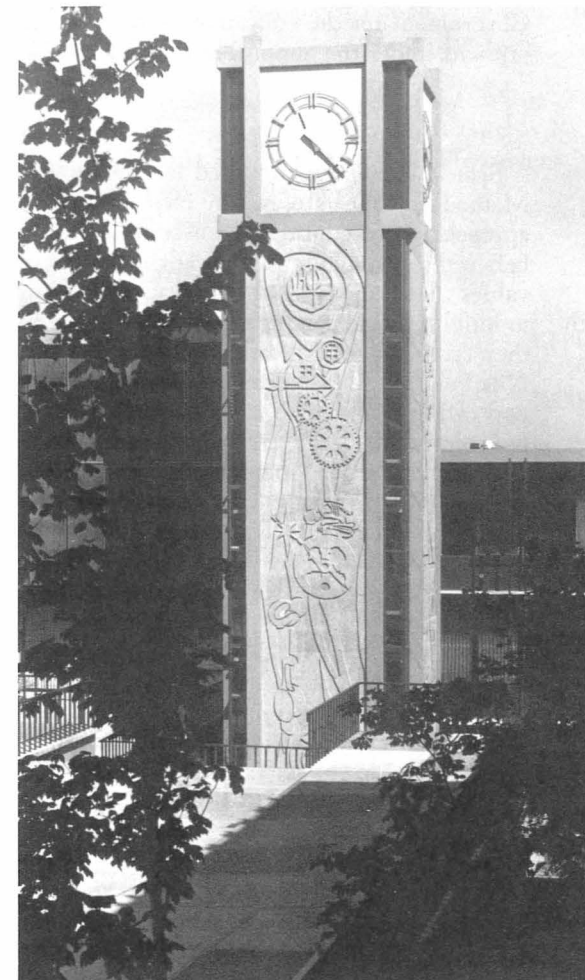
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## Introducing Seattle Pacific College

*A Christian Liberal Arts College*



### PURPOSE

Seattle Pacific College is a college of the liberal arts and sciences which seeks to demonstrate the meaning of Christ in ultimate human concerns through authentic persons. It is dedicated to helping its students attain an integrated Christian personality and life which is characterized by wholeness. Its aim is to help each student know himself, develop his critical judgment, appreciate his intellectual, cultural and religious heritage, understand the world and society in which he lives, and work effectively with other people.

### PROGRAM

Seattle Pacific offers thirty undergraduate majors leading to the degree of Bachelor of Arts, Bachelor of Science, Bachelor of Arts in Education or Bachelor of Science in Nursing. These courses of study are designed to help each student achieve a rich liberal arts background, to provide the necessary undergraduate foundation for students anticipating graduate studies, and to provide professional preparation in the following general areas: teaching, music, religion and missions, nursing, physical education and recreation, medical technology and public health. Other curricula provide pre-professional preparation in law, medicine, administration of justice, dentistry, pharmacy, engineering and religion. SPC also offers graduate work leading to masters' degrees with majors in education and religion.

## CHRISTIAN EMPHASIS

Seattle Pacific is thoroughly committed to evangelical Christian doctrine and standards of conduct. In and out of the classroom the college endeavors to present these principles to the students and to foster their application in daily life. Thus, administration and faculty maintain a personal interest in the spiritual growth of each student as well as a concern for his intellectual development, social awareness and competence, physical well-being and preparation for his life work.

Backed by the Christian forces of the city, the college is interdenominational in spirit and administration. About fifty denominations are represented in the student body.

## SCHOLARLY CHRISTIAN FACULTY

The more than one hundred dedicated Christian scholars on the SPC faculty seek to exemplify Christianity in thought and action. Since the faculty is selected both on the basis of professional competence and mature Christian commitment, Seattle Pacific combines high academic standards with loyalty to the Christian faith.

The college has traditionally enjoyed a healthy spirit of cooperation between students and faculty in the joint enterprise of learning.

## ACCREDITATION

Seattle Pacific College is fully accredited by the Northwest Association of Secondary and Higher Schools. It is on the approved list of the American Council on Education and the Board of Regents of the State of New York, and its credits are recognized by members of the various regional associations and by leading graduate schools throughout the country.

The college is accredited by the National Council for Accreditation of Teacher Education (NCATE) at both graduate and undergraduate levels and is a member of the Association of American Colleges and of the American Association of Colleges for Teacher Education. It is fully accredited by the Washington State Board of Education for preparation

of elementary and high-school teachers.

The School of Nursing is accredited by both the National League for Nursing and the Washington State Board of Nursing.

The School of Music is an Associate Member of the National Association of Schools of Music.

Seattle Pacific meets the requirements of the Commission of Christian Education of the Free Methodist Church for preparation of ministers and missionaries and is also approved by the Educational Board of the Free Methodist Church and other denominations for the collegiate preparation of ministers.

The college is approved by the United States Government for the education of veterans and war orphans under the applicable public laws.

## HISTORY

Seattle Pacific was founded in 1891 by Free Methodist pioneers of sturdy character and deep appreciation of education. These men and women believed so strongly in both academic and spiritual values that they sacrificed their modest means to build a school combining these values in Seattle, then on the edge of a raw frontier. One of these men, Nils Peterson, donated for the school's campus part of the farm which he had cleared with his own hands.

At first the school, then known as Seattle Seminary, offered only pre-college work. College-level courses were introduced in 1910 and the name was changed to Seattle Pacific College five years later. As the college department continued to grow, the high school was discontinued in 1936 and the elementary school in 1944.

A primary aim of the founders was to prepare missionaries for service in foreign countries. Through the years the college has remained true to this purpose, to the extent that more than 300 former students are currently serving as missionaries abroad.

To meet recurring financial crises, friends of the college jeopardized almost all their possessions to assure its financial integrity. Because of their devotion, the college overcame serious obstacles and grew in academic stature and in the world-wide

influence of its graduates.

In successive steps from 1921 to 1937 the college was accredited by the Washington State Board of Education. In 1936 full accreditation as a four-year liberal arts college was granted by the Northwest Association of Secondary and Higher Schools.

The college's capacity to serve continued to grow — new courses, an expanded faculty, a nursing curriculum, a Graduate School, the 100-acre field campus at Camp Casey on Whidbey Island, an Institute for Research, and construction of nine major buildings during the past decade are evidences of this growth.

Expansion of the educational facilities has been accompanied by an enhanced nation-wide reputation for academic excellence and concern for spiritual values.

The college is especially proud of the calibre of its alumni — the thousands of men and women who have left Seattle Pacific to face their life careers with the stamp of a high intellectual and spiritual purpose.

### *Principals of Seattle Seminary*

Alexander Beers .....	1893-94
Clark W. Shay, B.S. ....	1894-99
Chancellor N. Bertels, Acting Principal .....	1899-1900
Clark W. Shay, B.S. ....	1900-02
Albert H. Stilwell, M.A. ....	1902-04
Alexander Beers .....	1904-13

### *Presidents of Seattle Pacific College*

Alexander Beers, Ph.B., M.A. ....	1913-16
Orrin Edward Tiffany, Ph.D. ....	1916-26
Charles Hoyt Watson, M.A., Litt.D. ....	1926-59
Calvin Dorr Demaray, M.A., Litt.D. ....	1959-68
David L. McKenna, Ph.D. ....	1968-

## LOCATION

Seattle Pacific is located between Queen Anne Hill and the Lake Washington Ship Canal in the heart of Seattle (population about 570,000), the Pacific Northwest's great maritime metropolis at the gateway to Alaska and the Orient. Outstanding for the wealth of its cultural activities, its civic accomplishments and the vitality of its evangelical forces, Seattle is an ideal location for a Christian liberal arts college.

The city's uniformly mild climate is conducive to study and to healthful living. Seattle Pacific students enjoy the unsurpassed beauty of the city's setting — Lake Washington and the Cascade Mountains to the east, Puget Sound and the Olympic Mountains to the west — and the libraries, art galleries, music activities, parks and other advantages of a progressive, well-governed city.

Seattle is served directly by major transcontinental railroad, bus and air lines. A ten-minute bus ride takes the student from the campus to the city center.

# Educational Perspectives

## STATEMENT OF FAITH

From its beginning, Seattle Pacific College has taken a position within the historical stream of Christianity. Accepting the fundamentals of the Christian faith, it stands unequivocally for (1) the inspiration of the Scriptures including both the Old and New Testaments, (2) the deity of Christ, (3) the need and efficacy of the atonement, (4) the new birth as a divine work wrought in the repentant heart by the Holy Spirit, (5) the need and glorious possibility of the born-again Christian being so cleansed from sin and filled with the love of God by the Holy Spirit that he can and should live a life of victory over sin and (6) the personal return of the Lord Jesus.

## PHILOSOPHY OF EDUCATION

Seattle Pacific College is committed to the Christian philosophy of life which acknowledges in God an eternal and unchanging authority external to man and to society. It is a way of life which maintains that fellowship with God through Jesus Christ is the strongest impetus toward man's self-fulfillment.

This philosophy affirms that education must be for the total man. It recognizes him as a spiritual being created in the image of God and, though alienated by sin, potentially a child of God. Although the remedy for man's fallen condition is only accomplished through a divine transformation, the discovery of his potentialities and the development of both his spiritual and intellectual capacities must be the aim of any educational program that claims to be Christian.

The implementation of such a philosophy requires a Christian faculty who understand the nature and purpose of God as revealed in Jesus Christ and the nature and end of man as declared by the Scripture and attested by human experience. The faculty must possess a thorough academic preparation combined with Christian devotion and commitment.

This philosophy of education affirms that choice is foundational to character and that students should therefore be allowed the greatest freedom of thought and action commensurate with their maturity. It maintains that students should be presented with the alternative views on controversial matters. Such a philosophy of education contends that ultimately there is no conflict between truth in religion, philosophy and science and that the doors of investigation must always be kept open. In this way only may the student be qualified for intelligent and independent choices during and after his formal education.

## COLLEGE OBJECTIVES

The purpose of Seattle Pacific College is to assist students to develop into mature and intelligent Christians. The college aims not only to provide them with a body of knowledge, but to inculcate intellectual courage and honesty, spiritual vitality, social concern and vocational effectiveness so that they may provide leadership in meeting the problems and needs of the world in which they live.

### *Intellectual Growth*

We seek to promote the growth of students by stimulating their intellectual curiosity and motivating

them to a high level of accomplishment in the discovery, evaluation and use of knowledge. In harmony with the Liberal Arts tradition with its connotations of freedom and the worth of the individual, we agree that a knowledge of the great ideas and achievements of man is necessary in understanding the present and building for the future. We therefore attempt to develop in each student an awareness of his heritage, an aesthetic sensitivity and a sharpened critical judgment which will result in a meaningful involvement in the life of his time.

### *Spiritual Development*

We believe that a vital relationship with God through a personal commitment to Jesus Christ is a prerequisite for spiritual growth, therefore, the college seeks to help the student build on this foundation intelligent religious convictions and a sound philosophy of life. By presenting to him the Christian theistic view of the world in the light of Biblical and natural revelation, we hope to instill a devotion to God which expresses itself in worship, in Christian conduct and in a sense of responsibility for extending the Kingdom of God.

### *Physical and Mental Well-being*

We affirm that the intellectual and spiritual life cannot be separated from the physical — that the body is the temple of the Spirit of God — the college recognizes its responsibility to encourage and guide each student to achieve a high level of physical fitness and an optimum of mental and emotional stability.

### *Social Responsibility*

We recognize that the Christian message is both individual and social, the college attempts to prepare the student to live in harmony with his fellow man, exhibiting those social graces which naturally flow from kindness and respect for one's neighbor. But, because much that is not right with the world has been produced by man's inhumanity to man, the college seeks to arouse in the student a concern for the underprivileged, indignation at oppression and injustice, and a determination that the Christian message of good will to all men will be applied at the

practical level of human need.

### *Vocational Effectiveness*

We believe that there is no substitute for excellence. The college seeks to challenge the student to equip himself with the skills and understanding which will enable him to contribute to his chosen profession the full potential of his God-given talents.

## CAMPUS LIFE

Seattle Pacific College is an academic, social and religious community which appeals to students who seek high standards of academic excellence in a distinctively evangelical Christian environment. The college, therefore, has institutional expectations which are the broad guidelines for membership in the community. These expectations are determined by the historic role of the college and its continuing purpose to provide a climate that is conducive to *effectiveness*. Within the range of these expectations, *academic quality, social responsibility and spiritual effectiveness* Seattle Pacific College emphasizes the importance of the student's making decisions for his own life that reflect his growth toward these same goals.

**SOCIALLY**, Seattle Pacific College represents a community in which individual behavior is guided by the standards of personal health, moral integrity, social consequences and the effectiveness of the Christian witness. For one or more of these reasons, the college does not permit students to: (1) use tobacco or alcoholic beverages; (2) engage in illegal acts, such as those involving drugs or gambling; and (3) participate in activities which disrupt the educational process of the college. While those participating in these activities are subject to the denial of admission or the cancellation of registration, the college maintains respect for the individual through a redemptive concern and application of the principles of due process.

Also, as a part of its desire to enhance and maintain the effectiveness of the Christian witness, the college expects its students to participate in activities which express their religious and social concerns and to avoid questionable practices in entertainment,

conduct and appearance. For this reason, social dancing is not permitted on or off campus as a college-sponsored or college-related activity. Students are asked to observe Sunday as a day of worship, and social events on campus are guided by the principle that an expression of the Christian faith would be natural and appropriate.

*SPIRITUALLY*, Seattle Pacific College endeavors to maintain the attraction of a redemptive community which is conducive to spiritual decisions and growth. To implement this expectation, the college community participates in worship experiences, a quarterly Christian Commitment Week, devotional hour, and student vesper services. Students are encouraged to develop a life of individual devotions, to participate in spiritual growth groups, to become active in a church program, and to share their Christian witness.

Each student entering Seattle Pacific College indicates his desire to be a part of the spirit of the community, his interest in its goals and his agreement to uphold its standards. Non-matriculated students who are admitted to special programs of the college indicate that they are aware of these expectations and supportive of these goals. Also, they agree to maintain the personal standards of the institution while on the campuses or involved in formal or informal college-related activities. The student's signature on his application for admission verifies his continuing agreement to conform to the social standards of SPC.

#### *Chapel-Assembly Hour*

The statement that the "hub" of campus life in a Christian college is the Chapel-Assembly Hour has become increasingly meaningful through recent innovations at Seattle Pacific College.

In 1971-72 the Chapel program became "The President's Course." The Vision of Wholeness is a central theme and the academic community is challenged through a series of programs focusing upon Communion, Celebration and Confrontation.

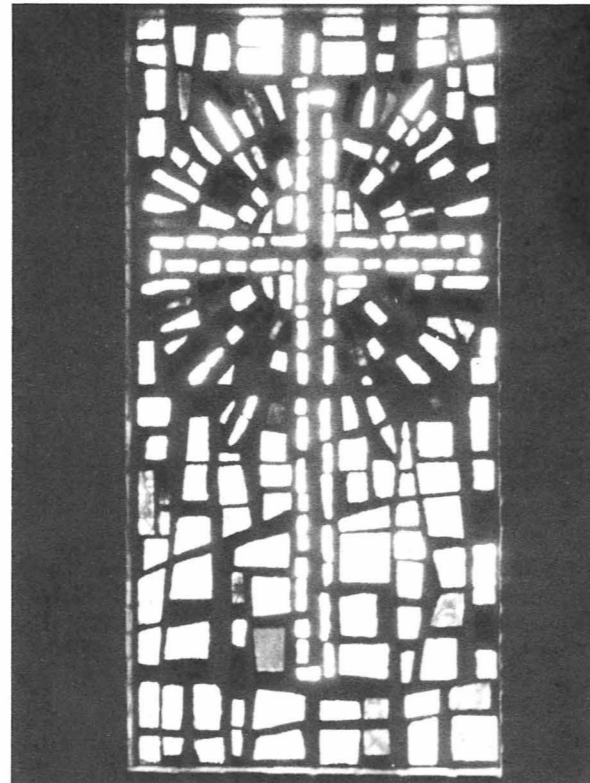
Chapels are held Monday, Wednesday and Fridays. Tuesdays are open for departmental meetings, seminars and student organizations. On Thursdays the "Cadre" meets. This group is a small number

of people numbering eight to twelve consisting of students and faculty. The theme, procedures and programs are determined by each cadre. The number of cadres operating varies from eighty to one hundred during the year.

Participation by the entire student body in the Chapels gives SPC campus life a unique unity. Attendance is required of undergraduates. Excuses are granted only after specific administrative approval of a petition submitted by the student.

#### *Convocation*

At the beginning of each quarter a special convocation is held for the purpose of reaffirming the objectives of the college and/or identifying the particular emphasis for the coming quarter. On one occasion a nationally known speaker may provide the address and on another a member of the community who has been selected by his fellow faculty members, may speak.



## Student Services and Activities

### CAMPUS RESIDENCE REQUIREMENTS

All unmarried undergraduate students living away from home are required to live in campus residence halls. Requests for off-campus housing must be filed on a Student Petition Form, obtained in the Student Affairs Office, with the Housing and Food Services Committee. Approval for off-campus housing must be granted by this committee in advance of any arrangements made for this purpose.

Policies pertaining to hours, attendance at religious services and other phases of college life apply to off-campus students as well as to those residing on campus.

Rooms should be reserved as early as possible in order to assure accommodation. Rooms are reserved with a deposit (see Financial Information section for amount) which is refundable only under the terms described in the "Refunds" section of this catalog and the terms of the Residence Hall Contract.

Policies and programs pertaining to resident living are designed to assist in the development of "Community" which is a primary objective inherent in the Residence Hall's Living-Learning Concept. Head resident advisors live in each resident hall and there is one student resident assistant on each floor to complement the Head Resident in his task. It is expected that each student will participate in the effort to build "Community" by upholding policies pertaining to care of rooms, study, dining hall hours, concern for others and in the development of agreements by which each floor of students choose to live. These agreements as well as individual floor governance exist solely to optimize social, academic, recreational and spiritual activities. Major

policies pertaining to residence hall living are administered by the Inter-Residence Hall Council (IRHC) with the approval of the Committee on Student Affairs (COSA).

### MEAL SERVICES

Breakfast, lunch and dinner are served seven days a week in Gwinn Commons. Meals are available to students living both on and off campus and to faculty, staff and occasional guests. The main dining room of the Commons seats 400. There are also dining areas for smaller groups.

Fountain and short orders are served in the Coffee Shop of the Student Union Building.

### INTER-RESIDENCE HALL COUNCIL

Inter-Residence Hall Council, comprised of the elected presidents and head residents of each residence hall, the Associate Dean of Students for Resident Programs and the Associate Dean of Students for Women, is responsible for formulating major policies and practices governing the residence halls, for developing procedures for residence hall governance, and for instituting programs for the social, personal, intellectual and spiritual growth of resident students. Major policies and practices formulated by the IRHC are subject to the review and approval of the Student Affairs Committee.

### HEALTH SERVICES

The college maintains a Health Service, including an infirmary, to meet both the routine and the

emergency health needs of the student which may arise during the school year. The Health Service is concerned about all aspects of a student's life which may affect his medical well-being and thus his personal and academic development.

The Health Clinic, located on the first floor of the Health Center, is open for service from 8 a.m. to 5 p.m., Monday through Friday. Two beds are available in the Health Center for day rest. Medications and injections are available in the Day Clinic at student expense.

Professional staff is available throughout the day; however, a registered nurse can be reached at all times. Auxiliary nursing services include visits to residence halls when students are confined for bed rest. Resident staff are oriented in health care procedures for the purpose of notifying proper persons and activating necessary procedures, should a student become ill or injured after clinic hours and on weekends. Full time students are eligible to obtain medical care at the Health Center. A physician conducts regular visits to campus to see students during specified hours at the Health Center, and is available at all times for telephone consultation about medical problems.

Needs of an immediate nature are seen at all times. All illnesses and accidents must be reported immediately to the Health Center for care or referral to community resources. All athletic injuries must be reported to the secretary in the Athletic Department. Community medical resources are utilized if serious illness or accident arises. The Health Service maintains a list of highly qualified specialists for referral.

Seattle Pacific College has selected King County Medical Blue Shield to provide additional health care coverage for students and their dependents. The program gives the student complete protection for medical expenses, including visits to a physician (selected by the student), surgery and hospitalization.

Each student enrolled in the program receives a credit card and brochure describing the benefits of the King County Medical Blue Shield program. Cost of the program to the student is specified in the section on Financial Information. Membership entitles students up to 35 visits to doctors listed in the register

of participating physicians. Also included are doctor's visits to the residence halls if the illness is of a serious nature. The professional staff at the Health Center clinic assists students in selecting a doctor and arranging office visits. The college provides transportation where needed to doctor's office and/or hospital clinic. Coverage for member students is comprehensive and extends over vacation periods (summer excluded).

For required physical examinations, see the "Health Record" section under "Admissions and Registration" procedures.

### COUNSELING AND GUIDANCE

Counseling services at Seattle Pacific College constitute an effort to work with individuals on a one-to-one basis when there is need for vocational, personal, social, spiritual, emotional and/or academic guidance. Therefore, students, faculty, staff, administrators and residence hall personnel—as well as professional staff—are an integral part of assisting a student in his definition of self and developmental process.

Professional counseling services and testing are a function of the Counseling Center. The Director of Counseling Services is available daily for personal counseling to facilitate student adjustment to college life. Many students find it helpful to take advantage of these professional services. In addition to the Director, the Dean of Students, Associate Deans, Director of Health Services, Foreign Student Advisor, Director of Minority Affairs, Director of Registration and Records and Director of Academic Advisement are all specifically responsible for student guidance. In the residence halls, Head Resident Advisors and Resident Assistants are available for counsel and help.

The entering student is introduced to the college at the New Student Orientation, which is required of all freshmen. Transfer students are invited and urged to attend.

All freshmen entering from the State of Washington take the Washington Pre-College Guidance Program tests in their junior or senior year of high school. In addition, they are required to take the College Entrance Examination Board's

Scholastic Aptitude Tests (SAT) or the American College Tests (ACT) and have their scores sent to the Office of Admissions at Seattle Pacific College. These tests provide useful information concerning the student's educational background and potential assets in determining placement in freshman courses. The Counseling Center administers, on request, supplementary tests to aid in educational and vocational planning, as well as offering to help with personal problems.

These services, programs, and personnel at Seattle Pacific College work together to meet the personal and developmental needs of students.

Seattle Pacific College considers its extensive out-of-classroom activities part of the total pattern of Christian liberal-arts education for every student. They are designed to encourage development of personality, to widen social and intellectual horizons, to provide opportunity for creative self-expression and to serve as channels for Christian service.

The college ideal is for every student to take part in some out-of-classroom activities, but for no student to participate in so many that his regular academic work suffers. Students on academic probation may be required to reduce or discontinue their out-of-class activities temporarily.

### STUDENT ORGANIZATIONS

Co-curricular activities are a joint endeavor of students and faculty, each student group working with a faculty adviser. Every effort is made to promote student leadership and a sense of responsibility in a democratic context.

*Associated Students.* Each student upon registering automatically becomes a member of the Associated Students of Seattle Pacific College. The Student Council, chosen by the students themselves, serves as the governing body of the Association and determines its policies, guides its activities and budgets its finances. The Association's activities are financed by the regular tuition fee. The Council encourages all students to participate in its discussions in order to gain experience in the democratic processes of community life.

*Associated Women Students.* The AWS sponsors activities of specific interest to women, conducts cooperative enterprises between students living on and off campus, and helps direct the affairs of residence-hall life.

*Classes.* Each of the four classes has its own organization, which sponsors social, religious and community service activities.

*Publications.* The students publish a weekly newspaper, *The Falcon*, a yearbook, *The Tawahsi*, and *Essence*, an anthology of student and faculty literary works. All of these publications are subject to the policies and directives of a student-faculty Committee on Student Publications.

*Student Clubs.* Each student has opportunity to join one or more activity clubs, according to his specific interest. These organizations provide a variety of activities and constitute the smaller social units on campus. They currently include: Art Club, Chi Rho (ministerial students), Christian Education Association, Circle K Club, Eta Pi Alpha (Student Washington Education Association), Inter-Varsity Missions Fellowship, French Club, German Club, Music Educators Club, Nurses' Christian Fellowship, S.P.C. Chapter of Student Affiliates of American Chemical Society, Theta Beta (Home Economics), and the Towne Club (sponsors activities for ASSPC off-campus students).

*KSSR.* Seattle Pacific College owns and operates a small radio station. The station broadcasts programs to the immediate campus community. Although the college is the owner of the station, KSSR is student managed, subject to policies and directives from the Committee on Student Publications.

*Honoraries.* Honoraries consist of members chosen on the basis of performance in one or more areas and include Centurions (men's service honorary), Falconettes (women's service honorary), Order of the S (athletic lettermen), Pi Kappa Delta (speech honorary), Alpha Psi Omega (drama honorary), and Mu Phi Epsilon (national women's music sorority).



Excellence in scholarship is recognized by membership in Alpha Kappa Sigma. Seniors may also earn listings in the publication *Who's Who Among Students in American Universities and Colleges*.

### SOCIAL EVENTS

The extensive schedule of social events is a joint responsibility of faculty and students. Faculty leadership is provided by the Dean of Students and a faculty adviser to each student committee. Student participation is under the general leadership of the second vice president of the Associated Students.

A social event in which all students may take part is provided nearly every week. Traditional events include the All-College Trek, an outing held in the first week of autumn classes; the President's Reception; Parents' Weekend, including "open house" in the residence halls and a banquet; the gala Homecoming celebration in the winter and the All-College Banquet.

### CULTURAL AFFAIRS

Under the leadership of the Cultural Affairs Board and with the cooperation of interested faculty members a variety of cultural events are planned throughout the year. These have included an Art Fair, a Film Festival, visiting musicians, artists, and lecturers. For a low-cost rate students may hear the Seattle Symphony. Because of its proximity to the Seattle Center, Seattle Pacific College affords its students an excellent opportunity to see and hear the world's most celebrated artists. Frequently students are offered special rates for admission to these cultural events.

### ATHLETIC ACTIVITIES

Intercollegiate athletics constitute an integral part of the overall educational program. Varsity athletic teams represent the college in basketball, soccer, cross country, track and field, and wrestling. Other selected sports compete on a club basis. A comprehensive intra-mural sports program is provided for all



students who wish to participate but who do not qualify for an intercollegiate team. Facilities include Brougham Pavilion, Queen Anne Bowl and Langlie Tennis Courts.

### MUSICAL ACTIVITIES

Music fills a large place in campus life and offers recreation as well as serious study at various levels. Regular instruction, either private or class, is offered in both vocal and instrumental music.

Regularly organized musical groups, open to any student (in some cases by audition), include the following: College Choir, Concert Band, Stage Band, College Orchestra, Collegium Musicum, Oratorio Society, Victory Male Quartet, String Quartet, Carillon Trio, and Flute Quartet. Other instrumental and vocal groups are organized informally on the basis of available student talent.

### RELIGIOUS ACTIVITIES

The faculty and student body desire to make the Christian life so natural and winsome that all who come to the college will want to live such a life.

*Gospel Teams* provide opportunity for Christian service in churches and missions. These teams, of six to ten members each, conduct services featuring music, reading, testimonies and devotional talks.

*Inter-Varsity Missions Fellowship* includes students actively planning to serve on foreign fields and others who are seeking God's will concerning missionary work. This large group stimulates missionary interest on the campus and in churches through weekly prayer-band services and other programs throughout each quarter.

*Chi Rho* is the organization of ministerial students. Meetings feature talks by leading ministers of the city and discussions of various aspects of the Christian ministry.

*Focus on Christian Commitment.* A week of special meetings is held each quarter during the regular school year. The leader of this series of services is

engaged by the college to bring messages in the morning chapel periods and to conduct Bible discussions and hold personal conferences during other periods of the day. Frequently the college cooperates in church-community evening services.

### SPEECH AND DRAMA ACTIVITIES

The college sponsors on its own campus an annual speech tournament for teams representing West Coast colleges and an annual tournament for high-school speakers.

*Forensics.* For more than half a century Seattle Pacific students have brought distinction to the college through their success in forensic activities.

Students, regardless of their academic majors, may participate in both intramural and intercollegiate speech events. Some of the latter involve considerable travel to other colleges and universities in the Western States.

Students distinguishing themselves in forensic competition are eligible for membership in Pi Kappa Delta, national college speech honorary.

*Drama.* As envisioned at Seattle Pacific, drama offers an effective medium for Christian witness as well as for the traditional aspects of cultural development.

The Speech Department sponsors each year major dramatic productions and several one-act plays. The Christian Drama Troupe, a touring group serving churches, schools and community organizations, specializes in chancel drama designed for worship and religious instruction. Students distinguishing themselves in drama are eligible for membership in Alpha Psi Omega, national drama honorary.

*Radio and Television.* The Speech Department produces programs for Christian radio and for the Seattle educational television station. Academic instruction includes practicum courses in radio and television program production and participation on programs using these media.

# The Campus

The Seattle Pacific College campus covers approximately twenty acres on the north slope of Queen Anne Hill bordering the Lake Washington Ship Canal in the central part of the city. Buses boarded at the college entrance take the passenger directly to downtown Seattle.

The rapid growth of the college in recent years is reflected in the predominance of buildings of modern design in contrast to the traditional ivy-covered halls of the college's earlier decades. Trees, lawns and flowers provide a park-like setting. The city-owned Queen Anne Bowl, a block from the campus, provides facilities for baseball and track and field. Adjoining the field are the college's four tennis courts.

## ACADEMIC AND SERVICE BUILDINGS

*Adelaide Hall* is a classroom building.

*Alexander Hall.* A four-story brick structure, the original college building was recently remodelled as an administrative and instructional center for the classics, Philosophy, Religion and Speech Departments. It contains offices, seminar rooms, studios, a library and a chapel.

*The Art Center* is located about two block from the main campus. The Center houses classrooms and extensive workshops for painting, sculpture, weaving, pottery and other artistic pursuits. In addition, the Center contains an art gallery where students, faculty and friends of the college display their work.

*Beegle Science Hall* is a modern, three-story building providing classrooms, laboratories, research facilities and shops for the Engineering, Mathematics and Physics Departments.

*Royal Brougham Pavilion* contains classrooms and

offices as well as facilities for athletic contests and physical-education classes. Seating capacity of the gymnasium is 2,500.

*Crawford Music Hall* is a modern, two-story building providing facilities for the School of Music. These include classrooms, studios, music library, and practice and rehearsal rooms.

*Demaray Hall.* Occupied for the first time in September, 1967, this building houses the main administrative offices, the economics & business and history department offices, the Admissions Office and classroom facilities for a maximum of 940 students, including a small auditorium seating 220 people.

*Gwinn Commons* on the upper campus is the spacious kitchen and dining facility, with a large social hall on the lower floor.

*The Health Center* is located on the lower campus near the center of student activities. A Health clinic, offices and day rest facilities are on the first floor.

*McKinley Auditorium* has a capacity of 700. Some assemblies are held here. The building also contains classrooms, department offices and the home economics laboratories.

*Peterson Hall* houses the School of Nursing, the Fisher Memorial Prayer Chapel and chemistry laboratories and classrooms.

*Science Hall* contains classrooms, laboratories and offices for the Biology Department.

*SPC Bookstore* is located in a newly remodelled building across the street from the Student Union.

The *Student Union* is the campus community

center. It contains a coffee shop, post office, lounges, recreational facilities, committee rooms and student-government offices.

*Tiffany Hall.* The first floor houses the Counseling Center and English Department offices. Numerous faculty offices are found on the second and third floors.

*Weter Memorial Library* provides spacious and pleasant accommodations for study and research.

## LEARNING RESOURCES

The office of Learning Resources directs the Weter Memorial Library, the Curriculum Library, and the Audio-Visual Center.

The *Weter Memorial Library* is a completely modern, three-story educational facility designed specifically to provide students a light, functional and cheerful center for study and research.

Approximately 80,000 volumes are arranged on open shelves easily accessible to readers. The books are classified according to the Dewey decimal system. A careful effort is made to keep abreast of recent literature, approximately 5,000 new titles being added each year. The library currently receives more than 800 periodicals regularly. Microfilm, microcard and microfiche readers, as well as low-cost duplicating facilities, are available to patrons.

Students also have easy access to the Seattle Public Library of more than one million volumes. In addition, they may use the facilities of the University of Washington library but without borrowing privileges.

Seattle Pacific College is a member of the Pacific Northwest Bibliographic Center. The Center is a cooperative non-profit organization, established and sponsored by the Pacific Northwest Library Association. It maintains a Union Catalog of approximately 4,000,000 cards which lists by author the holdings of some 40 major libraries in Alaska, British Columbia, Washington, Oregon, Idaho and Montana; of the Library of Congress; and of the John Crerar Library in Chicago.

The Center's primary purpose is to serve as a

clearing-house for regional cooperation among libraries. Its inter-library loan and location service enables students, faculty and staff of Seattle Pacific College to have requests for materials not on their own campus routed to those libraries in the region which can supply their needs.

Seattle Pacific College also maintains a Union List of Periodicals with Pacific Lutheran University and University of Puget Sound and St. Martin's College.

The *Curriculum Library* is a depository of textbooks from leading publishers, maps, a picture file, film strips and records, all geared to enhancing the quality of teacher preparation and growth on the elementary and secondary levels.

The *Audio-Visual Services Center* is equipped with 8mm and 16mm projectors, overhead, filmstrip, and slide projectors, audio tape recorders, record players, a video tape recorder, and assorted accessory materials. All of these devices are available to faculty and students for instructional purposes.

Major film libraries supply the Center with a wide variety of films, filmstrips, tapes, and other audio-visual materials requested by professors. An extensive file of catalogs listing audio-visual teaching materials for classes ranging from kindergarten through college is also available.

The Center has facilities for the local production of 35mm slides, overhead transparencies, graphics, duplicated materials, 8mm films, and video tapes. These services are available to all members of the college community.

The Curriculum Library and the Audio-Visual Center are located in Marston-Watson Hall.

## LABORATORIES

*Biology.* Four laboratories and an animal room in the Science Hall provide facilities for experimentation in all of the basic areas of biology. In addition the department maintains two research laboratories in a science annex and a running-sea-water laboratory at Casey Campus.

*Chemistry.* Well-lighted and ventilated chemistry laboratories in Peterson Hall are supplied with

basic equipment for all courses offered, including that necessary for undergraduate research.

*Computer Center.* A data laboratory in Demaray Hall houses a Digital Equipment Corporation PDP 11/20 time-sharing computer system with six on-site teletype terminals. Available peripherals include a card-reader, high-speed line printer, dual DEC-tape drives, and a fixed-head disc. High-level programming is possible in FORTRAN IV and an enriched BASIC language. The data lab also includes several latest generation electronic calculators, one of which may be programmed as a mini-computer.

*Home Economics.* Facilities of the home-economics department include a completely-equipped foods and nutrition laboratory, a well-appointed clothing-construction laboratory and a resources room.

*Physical Education.* Facilities and equipment are available for use in exercise physiology and include a bicycle ergometer, automatic performance analyzer, tensiometer and other items which can be used to evaluate circulatory and respiratory responses.

*Physics.* Six laboratories in Beegle Science Hall provide facilities for experimentation in atomic and nuclear physics, electricity and magnetism, optics, as well as for undergraduate and graduate research in physics. A well-equipped nuclear physics laboratory provides facilities for basic research and research training in medium-energy nuclear physics.

*Speech.* The speech laboratories provide tape-recording equipment for student use in self-analysis of personal speech problems. Facilities include two semi-professional tape recorders and a professional Magnacorder. Two listening booths are available to students at all times. Non-professional, but adequate, training equipment for student experience in audio programming includes a high-quality turntable, speakers and an amplifier-mixing panel.

## RESIDENCE HALLS

The college maintains seven residence halls housing 1,090 students. Most of the rooms accommodate

two students.

All rooms are supplied with single beds, mattresses, desks, dressers or chests of drawers, and chairs. Students provide their own bedding, pillows and rugs. Self-service washing machines are provided. All residence hall rooms have individual direct dial telephones.

In assignment of rooms and roommates the wishes of students are followed as far as possible. When appropriate, however, the college reserves the right to assign students to specific rooms or to move students after the school year has begun.

Each year the Residence Hall Councils levy a small fee on all resident students to provide funds for programming and activities within the halls. This fee usually ranges from \$3 to \$4 per year. In addition, residence halls occasionally assess additional small amounts on themselves for special projects which they may wish to undertake. All such assessments are subject to the approval of the Head Resident and the Associate Dean of Students for Residence Hall Programs.

*Housing Contract.* Students who request housing in a residence hall or in other college housing must enter into a contract agreement with the college before they are admitted to their rooms. Except under unusual circumstances, the contract period will be for the three quarters of the academic year. Any student who desires a room for less than the academic year must specify his request and the circumstances which justify it prior to receiving his housing assignment. Students who contract for housing for the full academic year will be given priority in the assignment of rooms.

*Room Deposit.* A Room Reservation and Damage Deposit per student is required for room reservation and is payable before a contract is issued and a room is assigned. This deposit is non-transferrable, but it is refundable after the student has properly "checked out" the last quarter he is in residence providing he has fulfilled the terms of his housing contract. Except under circumstances in which the student is forced to terminate his education for reasons of health, death in the family, or severe financial reverses, the room deposit will not be

refunded when a student leaves the residence hall before the contract period has expired. See Student Handbook and Residence Hall Contract for additional details.

*The Hill Residence Halls* (185 women, 145 men) are a 1962 addition to the campus. The two beautifully-appointed buildings are connected by a coeducational lounge.

*Marston Hall* (164 women) adjoins Watson Hall. The offices of the School of Education and a social hall are located on the ground floor.

*Moyer Hall* (120 men) is a men's residence hall overlooking the center campus. There are classrooms and offices on the ground floor.

*The Ashton Residence Halls* (204 women, 211 men) were completed in 1965. The six-story buildings have a commanding view of north Seattle from Puget Sound to Lake Washington. Co-educational lounges, post office and recreational facilities connect the two wings.

*Watson Hall* (61 women) is a women's residence adjoining Marston Hall. The Audio-Visual Services Center is on the ground floor.

*For Married Students.* The college provides apartments for a limited number of married students. Renting at a modest rate, these apartments vary in size and arrangement. Some are equipped with appliances and are partly furnished. Some units are large enough to accommodate children. Ten are new two-bedroom duplexes in a recently developed residential area.

*The Robbins Apartments*, a new housing complex on Third Avenue West across the street from Queen Anne Bowl, were completed in 1965. They comprise 24 one-bedroom, 24 two-bedroom and two studio apartments. These apartments have wall-to-wall carpeting and some major appliances.

Information regarding housing for married students may be obtained by writing the Plant Manager's Office.

Apartments for married students are also available in the community surrounding the college.

*Automobiles.* Although students may bring their automobiles to campus if they elect to do so, the college does encourage freshmen to leave their cars at home unless they need them to commute to work or to their homes on weekends. Research studies indicate that for many freshmen an automobile on campus is a detriment to scholarship and a very expensive luxury.

Moreover, parking space on the Seattle Pacific campus is very limited. Students who desire to park their cars on campus may rent parking space on a first-come first-served basis (see Financial Information for rates). All persons who bring automobiles to campus do so at their own risk. The college assumes no responsibility for theft, vandalism, damage or liability related to any automobile except those owned by the college.

## CASEY CAMPUS

Casey Campus is the college's 100-acre field campus on the west shore of Whidbey Island about fifty miles northwest of Seattle. The campus includes a quarter mile of driftwood beach, a ten-acre athletic field, an Olympic-sized heated swimming pool, an auditorium seating about 300 persons, a small gymnasium, two dining halls, and sleeping accommodations for about 500 persons. In addition, smaller buildings provide complete housing, dining and meeting facilities for groups up to a maximum of 50 persons.

The facility also includes the Casey Campus Biological Laboratories, the field marine biological station of Seattle Pacific College. A large laboratory is used for teaching, and a smaller one is equipped for research.

Casey Campus is the site of many college activities. Its facilities are available at modest rates to large and small groups whose objectives and conduct are in harmony with SPC standards. Inquiries should be addressed to the Director of Casey Campus, Route 1, Box 185Z, Coupeville, Washington 98239.

# Admission and Registration

Admission to Seattle Pacific College is based on several considerations. These considerations are intended to insure that students offered admission will be adequately prepared for the academic program and will benefit significantly from their total experience in the distinctively Christian environment of the college. In line with the stipulations of its original charter, students are admitted without discrimination as to race, color or nationality, creed or sex.

No arbitrary entrance requirements are imposed, nor does the college require a set pattern of high school subjects. It is assumed that each candidate for admission, with the advice of his high school counselor, has chosen those courses which will best prepare him for college work. Academically, those most likely to succeed at Seattle Pacific College are in the top fifty per cent of their high school graduating class. In addition to academic ability, such factors as intellectual curiosity, goals, leadership, responsibility, personal and social adjustments, commitment to Christian values and a desire to serve are considered. Special admission may be granted to applicants who have a high school grade point average between 2.0 and 2.5 and who have a combined minimum Scholastic Aptitude Test score of 750.

Those actively seeking an environment conducive to the development of the highest moral values and the building of Christian character will appreciate and benefit most from the total program. (See page 7 for SPC objectives and personal and social standards as they relate to admission.)

## Application for Admission

### GENERAL INSTRUCTIONS

#### 1. Request admission materials early:

Students interested in applying for admission should write the Director of Admissions, requesting a packet of application materials. Prospective applicants who are still in high school should request these materials very early in their senior year — October 1 is not too early. Prospective high school students as well as applicants who have had previous college study should request these materials at least six months in advance of the quarter for which they wish to enroll.

#### 2. Application Fee:

Each applicant is responsible for providing all items requested with the application, which must be accompanied by an application fee (see Financial Information section for amount of fees). This fee defrays, in part, the expense of investigating records, advising applicants and providing other services of the Admissions Office. It is not refundable and is not credited on any subsequent bill.

#### 3. Financial Aid:

Students in need of financial aid should file a Parents' Confidential Statement with the College Scholarship Service by February 15 and complete the entire application for admission by February 15. Further information and instructions

for financial aid applications may be obtained from the Office of Financial Aid Services.

### *Procedures for Students Entering Directly from High School*

#### 1. Applications:

The "Seattle Pacific College Application For Admission" should be completed and sent to the Office of Admissions early in the seventh semester (first semester of the senior year) along with the application fee.

#### 2. High School Transcript:

Applicants are expected to arrange for an official transcript to be sent by the high school (last attended) sometime during the first semester of their senior year. To do this, complete the "Application for Admission to Washington Higher Institutions" and give the form to your principal or counselor. He will complete the form and forward it to Seattle Pacific College. Applicants are also responsible to request that their eighth semester grades be forwarded upon graduation.

#### 3. Entrance Examination:

All applicants are required to take either the College Board Scholastic Aptitude Test (SAT) or the American College Test (ACT). A bulletin of information and registration packet containing rules for filing applications, fee payment, location of examination centers and examination dates may be obtained from your high school counselor. The addresses for testing information is as follows: American College Testing Program (ACT), P.O. Box 414, Iowa City, Iowa, 52290; College Entrance Examination Board (SAT), Box 1025, Berkeley, Calif. 94701. *Prospective students who are also applicants for financial aid must take the ACT or SAT in November, December or January.*

#### 4. Recommendation:

Recommendation must be submitted by a minister on the forms provided in the application packet.

### *Advanced Placement*

Seattle Pacific College participates in the Advanced Placement Testing Program conducted by the College Entrance Examination Board. Advanced

placement and/or college credit is given to qualified students on the basis of these examinations together with recommendations, course work and other evidence furnished by the high school. Recommendations regarding advanced placement and/or college credit are made by the chairman of the department concerned. Address inquiries concerning advanced placement to the Director of Registration and Records.

### *Students Entering from Accredited Colleges and Universities*

Students desiring to transfer to SPC from any other institution will follow the admission procedure required of entering freshmen, except that they will request their former college to send any test scores on file along with the transcript of record. All records become the property of Seattle Pacific College and are considered a part of the student's official file and permanent record. Failure to submit complete transcripts from all institutions attended, including high school, may result in dismissal from the college. Advanced standing will be determined on the basis of the accreditation of the institution previously attended, the credentials submitted by the candidate and recommendations by the Admissions Committee. In every case, however, the following conditions will apply:

1. At no time will a transfer student be admitted until he presents evidence of honorable dismissal from the institution last attended.
2. Transfer students are not required to take the American College Test (ACT) or the College Board Scholastic Aptitude Test (SAT) if they have taken 30 quarter hours or more of college work from an accredited institution.
3. In order to transfer to SPC, a student in another institution must be eligible to continue in the college department or specialized program in which he has begun to study or which he desires to enter, even when that department or program requires a standard above a 2.00 grade-point average.
4. No student will be permitted to enroll until his official transcripts have been received, except under rare circumstances and then only provisionally.
5. The average grade in all courses allowed for

advanced standing from each school must be "C" or higher. This means that for every grade of "D" accepted there must be another grade of at least "B" or its equivalent for an equal number of credits. "D" grades are not accepted from unaccredited liberal arts colleges and Bible colleges.

6. A total of thirty quarter credits earned from an approved institution by extension and/or correspondence, of which not more than 15 can be correspondence, may be allowed toward a degree at Seattle Pacific. No correspondence credit with lower than a "B" grade, or extension credit with lower than a "C" grade, will be accepted.
7. An undergraduate transfer student is required to earn a minimum of forty-five resident credits including fifteen upper-division credits in his major at SPC to be eligible for a degree.
8. A transferring student who holds a professional baccalaureate degree may be given a senior, or even lower, classification, depending on the specific circumstances.
9. One-credit courses, except physical-education activity and applied music courses, ordinarily are not transferable.
10. All transferable credit is tentative in the sense that a transfer student's scholarship must be validated by one quarter of full-time study at Seattle Pacific College. Advanced standing from an accredited institution will be posted to the student's permanent record after his earning at least twelve credits in one quarter with not less than a 2.00 g.p.a. Credit from Bible colleges will be posted the final quarter before graduation.

#### *Students Entering from Unaccredited Liberal Arts Colleges*

There is no set percentage of credits that can be transferred. The amount allowable very likely will be different in each case for it will be determined by four variable factors. These are:

1. The kinds of courses presented for transfer.
2. The marks earned in the different kinds of courses taken.
3. The course of study to be pursued at SPC.
4. The academic record established here during the first three quarters in attendance.

In all cases, the conditions outlined for students entering from accredited colleges will apply.

A student transferring from an unaccredited liberal-arts college or from a Bible college or a Bible institute must present acceptable scores on either the College Board's Scholastic Aptitude Test (SAT) or the American College Test (ACT).

#### *International Students*

Students from foreign countries who apply for admission must be proficient in use of the English language and must have a grade average equivalent to a "B" in the grading system used in this college. Graduates of high schools in countries where the school system provides for less than twelve years of instruction before college are expected to complete at least twelve years of schooling in their own country before being admitted to Seattle Pacific. In some cases a student may receive college credits for a part of his twelfth year of study, provided his marks are very high, his courses parallel closely comparable courses here and have been validated by proper examinations.

#### *Notification of Admission*

A letter indicating eligibility for admission usually will be mailed to the applicant approximately three weeks from the date application forms, transcripts, test scores and reference forms are on file with the Admissions Office.

#### *1. Entrance Reservation Deposit:*

An entrance reservation deposit is due after the applicant has been advised of his acceptance. This deposit is the student's acknowledgment of his acceptance. It guarantees the student a place in the entering class, and it reserves an on-campus living facility for those students planning to live in campus residence halls. See the Financial Information section for amount of deposit which varies for students living at home and those living in residence halls.

The tuition deposit is credited to the student's account and is applicable at the beginning of the quarter for which the student matriculates. Checks should be made payable to Seattle Pacific College and are to be sent to the Office of Admissions preferably within three weeks after

receiving a letter of admission. The tuition deposit will be refunded if requested before May 4, for fall quarter and 30 days prior to the beginning of subsequent quarters. Tuition deposits received after May 4 are non-refundable.

The room reservation deposit will be refunded if a written cancellation is received on or before August 1, for the fall quarter and 30 days prior to the beginning of subsequent quarters.

#### *2. Health Record:*

A student entering SPC for the first time, or returning after an absence of more than one calendar year, or who has previously attended Summer Quarter classes but is entering regular college classes for the first time, is requested to submit to the Student Health Center a form containing his health history and a report of a physical examination, preferably by his family physician. The form will be sent by the Office of Admissions after the applicant has been admitted.

This examination, which is required before a student may register, is taken at the student's expense. The report should be received at the college not later than one month prior to the expected date of registration.

An annual chest X-ray is required of every student and may be obtained free of charge at any local County Department of Health.

#### *ADMISSION TO GRADUATE STANDING*

1. *Graduates of Seattle Pacific College* may be matriculated as graduate students upon submitting a special application form provided by the college.

2. *Graduates of other approved colleges* must follow essentially the same procedure for admission as that followed by an undergraduate student transferring from another college. This involves submitting an application on the form provided by the college, filing academic records and references, and meeting the regular scholarship and character standards.

3. Information regarding *admission to candidacy for the master's degree* is found under the heading "Graduate School."

#### *APPLICATION FOR RE-ADMISSION*

Former SPC students who have not been enrolled within one calendar year prior to the quarter they desire to re-enter may apply for re-admission on forms available at the Office of Registration and Records. Re-admission forms are available from the Admissions Office to students who were previously admitted to SPC but did not attend the college. A new health report is required. A student who has attended another educational institution since he last attended SPC must have a transcript of his record at that school sent to the Office of Registration and Records. A student who was admitted to SPC but did not attend the college must have all additional recent transcripts sent to the Office of Admissions. Failure to submit such record may result in dismissal from the college. Re-admission will be governed by the policies regulating the admission of transfer students.

Undergraduates who have interrupted their study at SPC for more than four calendar years will graduate under the requirements listed in the catalog current at the time of re-entry or of the year prior to graduation.

#### *STUDENT STATUS*

*Regular Students* — all students who have fully met the requirements for admission. A limited number of students will have regular student status but will be admitted with Qualified Admission. These students are strongly recommended to take a maximum load of 12 hours per quarter for their first year at SPC.

*Special Students* — mature students over twenty-one years of age who meet the character requirements of admission and who, although unable to meet the academic requirements for admission based on high-school records, are permitted to attend classes because of special interest and proven academic ability. Such students will not be considered as candidates for a degree or a teacher's certificate until they meet the usual entrance requirements. If and when they do, credits already earned may apply toward degree requirements only upon recommendation of department heads and approval of the Academic Affairs Committee.

*Unclassified Students* — students, in most cases transfers from other institutions, whose advanced standing is still in doubt. For social purposes, the Office of Registration and Records may assign such students to regular classes (e.g., sophomore, junior).

*Transient Students* — students of other colleges or universities who wish to register at Seattle Pacific with the intention of transferring credit earned here back to their own institutions. For admission, such students must: (a) submit the regular application form, (b) meet the character standards for admission, (c) be academically eligible to enter, and (d) request the institution last attended to send the Office of Registration and Records a statement of good standing, including the total credits earned to date and the cumulative grade point average.

*Auditors* — persons who wish to attend classes but who do not desire credit. With the approval from the Office of Academic Administration and the instructor concerned, they may register in non-activity and non-laboratory courses or in the lecture part of laboratory courses. They may neither participate in class discussions nor take examinations. They may do daily assignments if they wish, but the instructor is under no obligation to read or correct them. Students who are unable to remain in college because of low grades and new applicants who do not qualify for admission may not register as auditors. A student may receive credit for an audited course only by enrolling in it as a regular student in a subsequent quarter. For tuition rates for auditors, consult the Financial Information section.

#### ASSIGNMENT TO CLASSES

For convenience in organization, students are classified at the beginning of each quarter according to the following arrangement (physical education credits are included in each case):

*Freshmen* — students having less than 45 credits or 90 grade points. (For definition of "grade points" see section below entitled "Grading System.")

*Sophomores* — students having at least 45 credits and 90 grade points.

*Juniors* — students having at least 90 credits and 180 grade points.

*Seniors* — students having at least 135 credits and 270 grade points. (Senior status does not necessarily insure graduation with that class.)

*Graduate-Non-degree Students* — those who have received the B.A., B.S., or B.A. in Educ. degree but have not been admitted to graduate degree classification. Sometimes called post-graduates, these students include those completing requirements for a second baccalaureate degree, those taking courses for enrichment, and those working towards teacher certification who have not applied for graduate status. *Graduates holding professional baccalaureate degrees who are working toward their first certification may be classed as seniors or advanced juniors.*

*Graduate-degree Students* — those admitted to graduate degree classification, on the basis of specific application to the Graduate School.

#### ORIENTATION OF NEW STUDENTS

To help make the transition to college a happy and effective one, the SPC faculty and students have organized a full calendar of orientation activities.

Held prior to the beginning of classes, they are designed to help new students become better acquainted with the college, their instructors, programs of study and classmates. For dates of the orientation retreats, see the official calendar elsewhere in this catalog. The Dean of Students' Office co-ordinates the orientation.

During the first week of school several "get-acquainted" social events are planned especially for the new students. A special chapel-assembly is held and opportunities are given to tour the educational buildings of the campus, including the laboratories and the library.

## Registration

### INITIAL REGISTRATION

Registration is directed from the Office of Registration and Records. The process includes obtaining registration materials and conferring with faculty advisors assigned by the Director of Academic Advising about the selection of courses and arrangement of schedule of classes and study. After registration has been approved by the advisor and checked for accuracy and completeness in the Office of Registration and Records, financial arrangements are made in the Business Office. Students then obtain their identification cards and have official validation by the Dean of Students. Students are not allowed to attend classes until completing all financial arrangements. For registration dates, see the official calendar elsewhere in this catalog.

### BEGINNING OF INSTRUCTION

Classes begin at 8:00 a.m. on days of instruction. Convocation is held as announced at assembly time during the first week of each quarter. This formal session features the faculty in academic dress. It expresses the academic and spiritual aspirations of the year.

### CHANGES IN REGISTRATION

When a student has completed registration, his choice of courses should be permanent. Changes usually require the written consent of the Office of Registration and Records or Academic Administration and the instructors involved. In no case will a student be permitted to change his registration to add a new course after the deadline for each quarter designated in the calendar.

### LATE REGISTRATION

All students are urged to be present and register on the day specified in the calendar for registration purposes. A late registration fee is charged each student who registers after regular registration period

(consult Financial Information for rates). Students are not permitted to register for credit in any course after the deadline for each quarter designated in the calendar.

### SCHEDULE OF CLASSES

Except during the Summer Session, classes are arranged in fifty-minute periods. There is an interval of ten minutes between periods and a chapel assembly period is scheduled each morning.

Some courses are taught in the evening, usually once a week. Students interested in evening classes only may write to the Director of Evening School for a special bulletin.

### WITHDRAWAL FROM COURSES

A student who desires to withdraw from any course must secure the approval of the Office of Registration and Records, the instructor concerned and his adviser; on his transcript the student will receive in the course an "E" (failure). Withdrawal blanks are available at the Office of Registration and Records.

A student who withdraws from a course during the first 8 weeks of the quarter and secures permission as outlined above, will receive a "W" in the course.

No student may withdraw officially from any class within the last two weeks, including examination week, of any quarter during the academic year.

# Standards of Scholarship

## EMPHASIS ON SCHOLARSHIP

Seattle Pacific College seeks to inspire in each of its students a sincere appreciation for genuinely scholarly work and an earnest desire to study. The Academic Affairs Committee has immediate jurisdiction over all questions pertaining to scholarship and is responsible to the faculty for maintenance of the college's standards.

## THE ACADEMIC LOAD

*Definition of Credit.* One "credit" signifies the value toward graduation of a class meeting one period of fifty minutes each week for a quarter of approximately ten weeks. Two (and sometimes three) fifty-minute periods of laboratory work are regarded as equivalent to one such period of regular class work. The SPC "credit" is a "quarter" credit and is equal to two-thirds of the "semester" credit in use at some institutions. (For instance, 45 quarter credits are equivalent to 30 semester credits.)

*Permissible Academic Load.* The term *academic load* refers to the schedule of studies for which the student is registered. Twelve to sixteen credits exclusive of physical education activity classes are considered a regular academic load for undergraduate students; nine to twelve, for graduate students.

By special permission from the Office of Academic Administration, students who maintain a high scholarship standard may be permitted to register for as many as nineteen credits. *Under no circumstances will a student be allowed to register for more than twenty credits including physical education and all*

*fractional credits.* Courses taken concurrently by correspondence, extension, or in another institution and non-credit courses count as part of the academic load.

*Reduction or Limitation of Load.* An undergraduate student's academic load is subject to reduction or limitation from the Office of Academic Administration for low scholarship or excess work outside of school hours. The following schedule suggests a relationship between the student's academic load and his outside work:

OUTSIDE WORK PER WEEK	LOAD ALLOWED
Fourteen hours or less.....	15 - 17 credits
Twenty hours or less.....	12 - 14 credits
Thirty hours or less.....	10 - 12 credits
More than thirty hours.....	6 - 10 credits

*Graduate Students.* See Graduate School section for regulations regarding permissible academic load in relation to concurrent employment. A maximum of 6 credits are recommended with full employment.

*Eligibility for Honors and Activities.* A student who is registered for less than the regular academic load is not eligible to be rated for scholarship honors, nor is he eligible to participate in intercollegiate activities. To participate in such an activity, a student must maintain a cumulative grade-point average of 1.75 or higher, and also must have earned a grade-point average of at least 1.75 during the last quarter in attendance prior to the quarter in which he participates in such an activity.

*Specific Athletic Eligibility.* A freshman must have passed in 12 credits the previous quarter. A person in his fourth quarter must have a 1.75 g.p.a., either accumulative or for his previous quarter. From the fifth quarter on a person must have a 2.00 g.p.a., either accumulative, or in his previous quarter.

*Final examination.* All classes are required to meet for final examination as scheduled. No student whose work is incomplete is allowed to take the final examination. No student may be given the grade "I" (incomplete) in any course in which he has taken the final examination. Instructors are not allowed to give the final examination to students in any course prior to the time of the scheduled final examination for the entire class in that course.

## Grading System

### GRADES AND POINTS

Except in cases of clerical error, no instructor may change a grade which he has submitted to the Office of Registration and Records.

*Grades.* The quality of a student's performance in a course is recognized by a letter mark or grade.

Grades, with their explanations and grade points, are as follows:

GRADE	EXPLANATION	GRADE POINTS
A	Superior	4
B	Above Average	3
C	Average	2
D	Below Average but Passing	1
E	Failure	0
W	Withdrawal	
I	Incomplete	
S	Satisfactory	*
N	In Progress	

\*Grade points for "S" credits are determined by the grade-point average for all other courses taken in the quarter during which the "S" is earned.

The mark "N" is used in a course in which the grade is dependent upon additional work. This mark indicates that the work is satisfactory to date but carries with it no credit or grade until the entire work is complete.

The Mark "I" indicates that the student did not complete the work assigned for a course because of absence from school during the quarter due to illness or other acceptable emergency. This grade can be given only on approval of the Office of Academic Administration upon written recommendation of the instructor. The student must initiate the request for the grade "I" as well as for its removal. An incomplete may be removed within the following two year period of time; otherwise the grade becomes a permanent incomplete. A fee is required for the removal of each "I." Blanks authorizing the granting and removal of incompletes may be obtained in the Office of Registration and Records and *must be presented to the instructor before the final examination is taken.*

Students who receive a grade of "D" or "E" may repeat the course in which the grade was earned, or may arrange through the Office of Academic Administration and the head of the department concerned to take an equivalent course at SPC in its place if the original course is no longer offered. In such cases the grade received the second time, either in the repeated or substituted course, shall be the one considered in computing the average grade score required for graduation. For the purpose of determining college honors, only the grade received the first time will be counted.

*Grade Points.* Grade points (or quality points) are the numerical equivalent of letter grades and are assigned for each credit earned with a given grade according to the scale indicated above. For example, an "A" in a five-credit course would give the student twenty grade points. These points express the quality of a student's performance in terms of numbers for the purpose of determining scholastic achievement, rank in class and individual and graduation honors.

*Grade-Point Average.* A student's grade-point average (also known as grade score) is determined by

dividing the total number of grade points earned during a given period by the number of credits for which the student was enrolled and received a regular grade during the same period. For example, if a student earns forty-five grade points during a quarter in which he is enrolled for fifteen credits, his "g.p.a." for that quarter will be 3.00. A student's grade score is figured both for each quarter and accumulatively.

### ACADEMIC PROBATION

SPC students are given every help and encouragement to earn satisfactory grades. After the quarter's grade scores are computed, freshmen and sophomores scoring less than 1.75 are considered on academic probation for the subsequent quarter. Juniors and seniors (students with at least ninety credits and 180 grade points) are placed on probation if they do not earn a quarter grade-score average of 2.00. After three quarters of probation a student may be dropped.

Students so dropped may petition for reinstatement and in meritorious cases may be given another opportunity to succeed by earning a grade of 1.75 or above. Failing to achieve this, the student may reapply after an interim of one year.

A "C" average (a 2.00 grade-score average) at SPC is required for graduation from the college.

## Academic Honors

### DEAN'S LIST

The Dean's List, issued at the end of each quarter, includes those undergraduate students in good standing who have taken at least 12 hours of work and attained the following or higher grade point averages:

Freshmen and Sophomore students	3.25
Junior and Senior students	3.50

### GRADUATION HONORS

The baccalaureate degree will be conferred with honors on the basis of a student's grade-point average for his entire college course of study. He must have completed 75 quarter hours in residence with junior and senior standing at Seattle Pacific College, and both his entire SPC record, and within that, his last year's academic work must be up to the minimum grade-point level required for the honor. Honors for a second baccalaureate degree require the stipulated g.p.a. in both the entire work necessary for the degree and within that, the 30 credits required in residence.

HONOR	GRADE-POINT AVERAGE
<i>cum laude</i>	3.30-3.59
<i>magna cum laude</i>	3.60-3.89
<i>summa cum laude</i>	3.90-4.00

### ALPHA KAPPA SIGMA

Students who make an outstanding contribution in upholding and promoting the standards and ideals of the college and show an enthusiasm for good scholarship, character development and extracurricular activities may be eligible for election to the honor society Alpha Kappa Sigma. This honor society has chapters in all the colleges of SPC's sponsoring denomination. Candidates are recommended by the faculty awards committee and elected by vote of the faculty during their senior year.

### THE PRESIDENT'S CITATION

The President's Citation is awarded each year to the graduating Senior who has demonstrated distinguished academic achievement in the context of a Christian liberal arts program. To be eligible for this award, the student must have done all his college work at Seattle Pacific and must have adhered consistently to the ideals of the College. The Awards Committee will make the selection.

### GENERAL HONORS PROGRAM

An honors program especially designed for a limited number of exceptional people is available to

those that qualify. Although several criteria are used in selecting individuals for the program, outstanding ability and/or talent and a sincere desire to participate in the program weigh heavily in the selection deliberations.

The essential features of the program are:

1. Honors students will be excused from all general education requirements. Participants will have a major and will need 186 credits for graduation (includes 60 upper division credits).
2. Honors students may "challenge" any course in the curriculum. To challenge means that the student may earn credit for a course by examination without formally taking the course. In some cases he may be required to write a paper or demonstrate proficiency in other ways. A fee for each challenge will be charged to cover administrative costs. A charge per credit, if the challenge is successful, is also assessed. The schedule of charges per credit is available in the Financial Information Section of this Bulletin. Additional details regarding the mechanics of challenges are available in the office of the Director of Honors Programs.
3. Scores of 4 or 5 on advanced placement examinations will be accepted as evidence of college level proficiency and an appropriate amount of college credit will be given towards graduation requirements.
4. Honors students will attend a regular honors seminar or colloquium. This will attempt to transcend course and discipline boundaries and deal with issues, problems and questions of general concern and interest. Credit will be given.
5. An honors project or paper in a subject of his choice will be required of honors seniors.
6. Graduates that complete at least three years in the program and successfully complete a project or paper will receive special recognition

on their diplomas and transcripts.

7. Honors students must maintain a 3.0 grade average.
8. Special opportunities for service to the community will be available to the honors student.

Students may leave the program at any time; however, they will immediately become subject to the general education requirements. They will not lose credit earned by "challenge" or advanced placement examination.

A program of this nature offers flexibility and freedom and should appeal to the bright, mature student and students with intense special interests or talent. Independent study and work-study will be integral parts of the program in many cases.

Students desiring further information, and those wishing to apply, should direct a letter stating their desire to: Director, Honors Program, Seattle Pacific College, Seattle, Washington 98119.

### DEPARTMENTAL HONORS COURSES

The departments of Chemistry, English, Mathematics and Physics offer honors courses to highly qualified students. Information regarding a course or courses can be obtained by contacting the appropriate department chairman.

*Credit by Examination CLEP.* Seattle Pacific offers college credit for the General Examinations and the Subject Examinations given by the College Entrance Examination Board. Information is available in the Office of Registration and Records.

*Credit by Examination.* A student may apply, through the Office of Registration and Records, to take an examination for credit in any course approved by the department. Fees are charged for the examination and credit. A student may earn a maximum of 45 quarter credits by examination. None of these credits will apply to the forty-five hour resident requirement.



# Baccalaureate Degree Requirements

## Areas of Instruction

The college offers studies in the following fields. Departments offering undergraduate majors are indicated by an "M."

American Studies, M	Inter-Language, M	Physics, M
Anthropology	General Studies	Political Science, M
Art, M	American Studies, M	Pre-Professional
Biology, M	Contemporary Studies	Administration of Justice
Chemistry, M	Continuing Studies	Medical Technology
Economics & Business, M	General Honors	Pre-Dentistry
Education	Home Economics, M	Pre-Engineering
Engineering Science, M	Librarianship	Pre-Law
English, M	Mathematics, M	Pre-Medicine
History, M	Mathematics-Economics, M	Social Work
Foreign Languages	Music	Psychology, M
Classical	Applied Music, M	Public Health
Greek, M	Church Music, M	Religion
Latin, M	Music Education, M	Biblical Literature, M
Modern	Music Theory & Literature, M	Christian Education, M
French, M	Nursing, M	Christian Mission, M
German, M	Philosophy, M	Sociology, M
Russian	Philosophy-Religion, M	Sociology-Anthropology, M
Spanish, M	Physical Education, M	Speech, M

## Program Requirements

### TOTAL CREDIT AND QUALITY REQUIREMENTS

1. A total of 186 credits.
2. A cumulative grade-point average of at least 2.00 in all courses applicable to the degree.
3. A cumulative grade-point average of at least 2.00 in all courses taken at Seattle Pacific College.
4. At least sixty credits earned in courses numbered 300 or above.
5. At least forty-five credits earned in residence. During one quarter of residence, a minimum of

- twelve credits must be completed with a 2.00 grade average. Credits earned by examination do not satisfy the residence requirement. If only one year is taken at Seattle Pacific College, it must be the senior year.
6. The last fifteen credits prior to graduation must be earned in residence.

## GENERAL EDUCATION REQUIREMENTS

### B.A., B.A. in Education and B.S. Degrees

(Up to 20 credits of work within the framework of these requirements may be specified by the School of Education faculty as an elementary teaching minor.)

1. Biblical Literature ..... 11
  - a. The courses which satisfy this general education requirement are only those listed in the *Biblical Literature* classification (see p. 95).
  - b. The department recommends selection of complementing areas of Biblical study in process of satisfying this *Biblical Literature* requirement.
  - c. All undergraduate students must earn at least 3 credits in courses numbered 300 or above.
  - d. Transfers with senior classification must earn at least 3 credits (upper division); with junior classification, at least 6 credits (including 3 upper division); with sophomore or freshman classification, 11 credits (including at least 3 upper division). All undergraduate transfers who are to graduate at SPC must earn at least 3 credits in residence here.
2. Fine Arts (must include Art 180, Music 180 or Speech 180) ..... 8\*
3. Language Arts
  - a. Any two of the following  
English 122, 123, 124, and 125 ..... 10
  - b. Elective from Drama, English, Foreign Language, Journalism, Speech ..... 5\*
  - c. Foreign Language ..... 15\*\*  
Requirement may be met with two years of one foreign language in high school (three years if taken in grades 7, 8 and

\*The same drama course may not be used to meet both requirements 2 and 3b.

\*\*B.A. in Education and B.S. foreign language requirement is 10 credits. None of these can count toward the 5 credit elective in language arts.

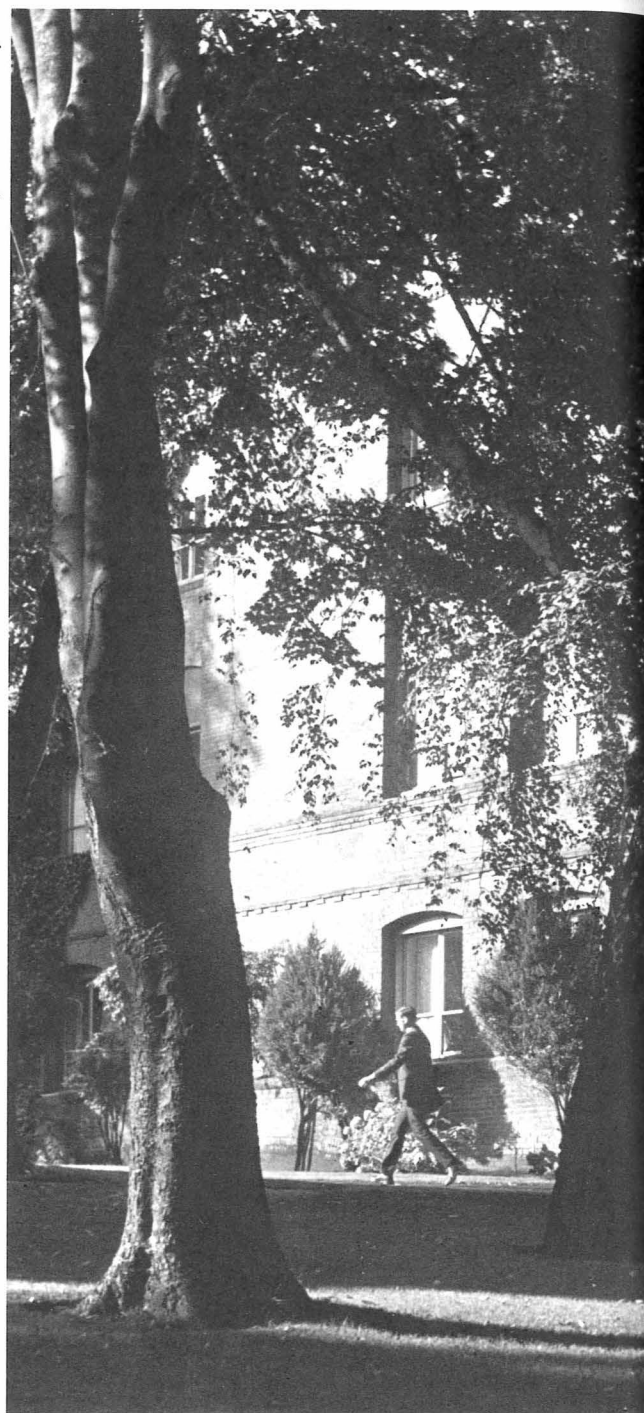
9). If taken in college, the last 5 credits of the 15 will meet the 5 credit elective in language arts.

4. Natural Science and Mathematics ..... 18
  - a. Elected from three fields:
    - 1) Biological Sciences
    - 2) Mathematics
    - 3) Physical Sciences
  - b. Credits must be earned from at least 2 of the 3 fields
  - c. 8 credits must be earned from at least one of the 3 fields
  - d. At least 3 credits must be in a course numbered 300 or above
5. Philosophy (from courses approved by the Philosophy Dept.) ..... 5 or 3  
(5 credits in a course numbered 100-299 or 3 credits in a course numbered 300 or above.)
6. Physical Education Activity ..... 6
7. Social Sciences ..... 18
  - a. Elected from three groups:
    - 1) Anthropology, Psychology, Sociology
    - 2) Economics, Geography, Political Science
    - 3) History
  - b. Credits must be earned in 2 of the 3 groups
  - c. 8 credits must be earned from at least one of the 3 groups
  - d. At least 3 credits must be earned in a course numbered 300 or above

### B.S. in Nursing Degree

1. Biblical Literature ..... 8  
The courses which satisfy this general education requirement are only those School of Religion offerings listed under *Biblical Literature*. All undergraduate students must earn at least 3 credits in courses numbered 300 or above. Transfers with senior classification must earn at least 3 credits (upper division); with junior classification, at least 6 credits (including 3 upper division); with sophomore or freshman classification, 8 credits (including 3 upper division). All undergraduate transfers, regardless of standing or Biblical literature credit earned at another institution, must earn at least 3 credits in residence.

2. Fine Arts (must include Art 180, Music 180 or Speech 180)..... 5\*
3. Language Arts
  - a. Any two of the following
    - English 122, 123, 124, and 125..... 10
  - b. Electives from Drama, English, Foreign Language, Journalism, Speech..... 5\*
  - c. Foreign Language ..... 15  
 Requirement may be met with two years of one foreign language in high school (three years if taken in grades 7, 8 and 9). If taken in college, the last 5 credits of the 15 will meet the 5 credit elective in language arts.
4. Natural Science and Mathematics..... 18
  - a. Elected from three fields:
    - 1) Biological Sciences
    - 2) Mathematics
    - 3) Physical Sciences: Chemistry, Physics
  - b. Credits must be earned from at least 2 of the 3 fields
  - c. 8 credits must be earned in one of the 3 fields
  - d. At least 3 credits must be in a course numbered 300 or above
5. Philosophy (from courses approved by the Philosophy Dept.)..... 5 or 3  
(5 credits in a course numbered 100-299 or 3 credits in a course numbered 300 or above.)
6. Physical Education Activity..... 3
7. Social Sciences ..... 18
  - a. Elected from three groups:
    - 1) Anthropology, Psychology, Sociology
    - 2) Economics, Geography, Political Science
    - 3) History
  - b. Credits must be earned in 2 of the 3 groups
  - c. 8 credits must be earned in one of the 3 groups
  - d. At least 3 credits must be earned in a course numbered 300 or above



\*The same drama course may not be used to meet both requirements 2 and 3b.

#### SPECIFIC STANDARDS GOVERNING THE COMPLETION OF A MAJOR:

1. A departmental major requires a minimum of thirty-six credits. Eighteen credits are required in courses numbered 300 or above.
2. A departmental major is required for completing either the B.A. or the B.S. degree. (The B.S. degree is given only for majors in science, mathematics, physical education or home economics.)
3. An area major for the B.A. in Education degree requires completion of a minimum of forty-five credits from a single area (i.e., language arts, social studies, etc.).
4. Departmental requirements for the completion of a major must be met in full. These requirements are given in the department sections of the catalog which state total credits, upper division credits, prescribed courses and supporting courses.
5. A transfer student must earn a minimum of 15 upper division credits in his major at Seattle Pacific College.
6. Course work with a "D" grade, while counted toward graduation, may not be counted in the total credits for a major.
7. A written application for a degree should be made by the candidate at the end of the junior year.

#### LIMITATIONS ON CREDIT APPLICABLE TOWARD A DEGREE

1. Only six (6) physical education activity credits may be included in the total credits required for a degree (except for physical education majors).
2. Up to thirty (30) credits earned by extension and/or correspondence may be applied toward the degree. Of these thirty, no more than fifteen (15) may be correspondence credits.
3. Seattle Pacific College may accept ninety credits plus six physical education activity credits from a community college, junior college, Bible college or institute toward a degree.

#### ADDITIONAL BACHELOR'S DEGREE

A second bachelor's degree may be earned upon completion of forty-five credits in addition to the total credits required for the first degree, subject to the following conditions:

1. Thirty of the forty-five credits must be earned subsequent to the granting of the first degree.
2. Fifteen of the forty-five must be upper division credit.
3. If the first degree was earned at SPC, the last fifteen of the forty-five credits required for the second degree must be taken here, including at least fifteen upper division credits in the major.
4. If the first degree was earned by a former SPC student at another institution, at least thirty of the forty-five credits, including at least fifteen upper division credits in the major, must be earned at SPC.
5. A student who has never before attended SPC must take all forty-five credits here, including at least fifteen upper division credits in the major.
6. All specified requirements for the second degree must be fulfilled.

# Special Schools and Curricula

## Graduate School

### ORGANIZATION

The Graduate School is administered through the Graduate Council and the Academic Affairs Committee with the Dean of Academic Administration serving as chairman of the Graduate Council.

The Graduate Council is a subcommittee of the Academic Affairs Committee.

### AIMS

The Graduate School emphasizes three principal aims: (a) scholarship, (b) research and (c) professional competence. The third objective is stressed especially in the departments preparing students for the "service professions" such as teaching and religious activity, including the ministry, Christian education and missionary work.

### CLASSIFICATION AND ADMISSION

A student must apply for admission to the Graduate School. Post-baccalaureate students with liberal arts degrees from accredited institutions are classified either as graduate degree students, for those electing and qualified to pursue the master's degree program; or graduate non-degree students, for those electing to pursue teacher certification, a second bachelor's degree, or enrichment courses.

Admission to graduate degree classification is not synonymous with admission to candidacy for an advanced degree. It is normal for holders of a baccalaureate degree to pursue graduate studies before being admitted to candidacy. To obtain candidacy,

a separate application for candidacy is required, accompanied by a proposed program of studies.

### FIELDS OF GRADUATE STUDY

Seattle Pacific offers graduate majors in the following fields:

Education	Physics*
Religion	Physical Science*

The Graduate School offers four degrees — master of arts, master of arts in teaching\*, master of education and master of science\*.

Graduate majors in religion receive the M.A. degree; graduate majors in education receive the M.Ed. degree; graduate majors in physical science (a combination of physical science, mathematics and education) for teaching receive the M.A.T.\* degree; and graduate majors in physics receive the M.S.\* degree.

### GRADUATE SCHOOL REQUIREMENTS

#### A. Requirements for Admission to Graduate Degree Classification

To be eligible for admission to graduate study under the master's degree program, an applicant must:

1. Be a graduate of an approved four-year college with a B.A. or equivalent degree.
2. Be matriculated at Seattle Pacific College. Students who have not graduated at SPC must follow the same application procedure as

\*Presently inactive; may be reactivated upon sufficient demand.

undergraduate students.

3. If a graduate of Seattle Pacific College, fill out a supplementary application form to indicate intent to pursue a master's degree program.
4. Present an acceptable score on the Graduate Record Examination. For information and for arrangements to take this examination, the student is advised to contact the Office of Registration and Records or write Educational Testing Service, Box 1502, Berkeley, California 94701.
5. Have earned a grade score of 3.00 or higher in the last forty-five credits completed before admission to the SPC Graduate School (an over-all g.p.a. of 3.00 or higher on the baccalaureate work accepted by SPC). An applicant whose grade score is below 3.00 but not below 2.75 for accepted work, and whose Graduate Record Examination is acceptable, must (1) complete a minimum of two quarters of 9 graduate-level credits each with "B" or above grades (exclusive of workshops and courses carrying "S" and "N" grades).
6. Qualify under one of the following academic patterns in case he is a graduate of an acceptable institution not accredited by a regional association.
  - a. Present an over-all "B" average in his undergraduate courses, complete the equivalent of lower-division requirements for an SPC degree, present an acceptable percentage of upper-division credits, complete at least 120 quarter credits in liberal arts courses including not more than eleven hours of religion credit, make up deficiencies in undergraduate major preparation as determined by the department, submit acceptable scores on the Graduate Record Examination where required, and be admitted to "provisional status."
  - b. Earn a liberal arts degree at SPC or another regionally accredited college or university.
7. Meet and maintain the acceptable character

and conduct standards.

#### B. Requirements for Admission to Graduate Non-Degree Classification

To be eligible for admission to graduate non-degree classification for the purpose of pursuing provisional certification, standard certification (fifth year), a second bachelor's degree or enrichment courses, the student must satisfy points 1, 2 and 7 above.

If a student is a graduate of an acceptable institution not accredited by a regional association, he must qualify by presenting an over-all "B" average in his undergraduate courses, complete the equivalent of lower division requirements for an SPC degree, present an acceptable percentage of upper-division credits, submit at least 120 quarter credits in liberal arts courses including not more than 11 hours of religion credit, and satisfy an undergraduate major preparation. If the above requirements cannot be met, then the prospective student is encouraged to enter as an undergraduate student.

A student who holds a professional baccalaureate degree may be given senior, or even lower, classification, depending on his academic background.

#### C. Admission to Candidacy for an Advanced Degree

To be admitted as a candidate for a master's degree the following conditions must be met:

1. The student must be an admitted graduate degree student.
2. He must apply for candidacy. This application should be submitted to the head of the candidate's major department, no later than completion of 18 credits in residence.
3. He must submit with the application a "Proposed Program of Studies" approved by his adviser.
4. He must have submitted a "Prospectus" of his proposed research problem where a thesis or a project is required.
5. He must be approved by the Graduate Council. The purpose of this action is to:
  - a. Determine whether the candidate has the requisite life philosophy, quality of mind

and attitude toward service and research to justify intensive study toward the advanced degree.

- b. Determine whether the candidate's preparation constitutes a satisfactory foundation in the proposed major and cognate fields of study.
- c. Make final determination regarding the program of studies to be followed.

D. *Majors for the Master's Degree*

A *Graduate Major* is defined as a minimum of 36 credits (including credits granted for preparation of the thesis, project or department papers) earned in a single department after receiving the baccalaureate degree. The department concerned may require more than this minimum. At least twenty-one credits for the M.A. degree (including thesis, project, research or departmental papers) must be in courses numbered 500 and above. For the M.Ed. degree, twenty-seven credits (including thesis, project, or research seminar) must be 500-level.

E. *General Requirements for the Master's Degree*

1. Satisfactory completion of institutional and departmental requirements for the respective master's degrees in harmony with the program of studies approved by the Graduate Council.
2. One year of successful teaching experience — for M.Ed. degree. (See School of Education specific requirements for this degree.)
3. Meet the residence requirement for degree desired. The minimum institutional residence requirement for the master's degree is 27 credits. A minimum of nine hours must be taken in one quarter or summer while working on the master's degree. The last 10 credits for the master's degree must be earned at SPC.
4. Presentation, where required, of a thesis or project prepared according to a form specified by the major department.
  - a. A student shall not register for more than nine hours of thesis.
  - b. A student shall not register for thesis or project until his candidacy has been approved.

c. Total research, readings and thesis/project credits applied on a master's degree shall not exceed 12 credits.

5. A reading knowledge of an approved foreign language where required.
6. All master's degree candidates must present at least three hours of acceptable Biblical Literature credit, either from undergraduate work or in connection with their master's degree programs. A student without background in Biblical literature may choose any 300- or 400-level Biblical Literature course and apply the credit toward his master's degree. At his option, he may take a lower division course if it is in excess of regular master's degree requirements.
7. A maximum of six workshop credits may be applied on an M.Ed. degree.
8. Correspondence credit is not applicable on a master's degree.
9. Extension credit, up to a maximum of 6 credits, may be allowed.
10. A student who is not enrolled for one calendar year must apply for readmission. (See Financial Information for exact fees.)
11. Attainment of at least a "B" in all courses in the major area; no grade below a "C" in the supporting field; and a g.p.a. of 3.0 or above for all courses in the approved program for the master's degree.
12. Successful completion of a written examination in the major field of study and an oral examination on the thesis or project. The written examination must be passed before the oral examination is scheduled. In programs without a thesis or project, the passing of an oral examination on the major subjects, in addition to the written examination, is required.
13. All 500 level courses applied toward the degree must be taken within six years of granting the master's degree.
14. Payment of the Master's graduation fee and cost of binding of the thesis or project (three copies).

F. *Specific Requirements for Master's Degree*

1. For the master of arts degree with a major in

religion — see the section entitled "School of Religion."

2. For the master of education degree with a major in education—see the section entitled "School of Education."

G. *Academic Load and Employment*

1. Nine to twelve credits per quarter are considered a normal load for graduate students. A graduate student is a full-time student if he carries at least nine credits. Maximum academic load permitted without special permission is twelve quarter credits. No more than 15 hours in one quarter may be applied toward a master's degree program.
2. A fully employed graduate student should take no more than six hours per quarter.
3. The academic load of students employed part-time is subject to review and limitation. the Dean of Professional and Graduate Studies.

H. *Chapel-Assembly Attendance*

Full-time graduate students are encouraged to attend chapels and assemblies and to use these opportunities to hear outstanding leaders in various fields, such as education, religion, and other professions.

I. *Scholarships, Tuition, Loans, Discounts and Fees*  
See catalog section on "Financial Information."

## School of Education

EDWIN L. LYLE, *Dean*

The School of Education offers opportunity for a wide range of professional study and experience. Its programs prepare students to meet the requirements for State of Washington General Elementary and Secondary teaching certificates and principals' credentials. They also prepare students to meet the teaching requirements of other states. Since each state establishes its own standards of certification, students desiring out-of-state certification should confer with the School of Education office upon beginning studies at SPC. United States citizenship is required of teachers in Washington as well as in most other states. Students who are not United States citizens should also confer with the School of Education and placement offices.

SPC is fully recognized by the Washington State Board of Education as a school of education for elementary and secondary school teachers. Programs are accredited by the National Council for Accreditation of Teacher Education for elementary and secondary teachers at the baccalaureate level; and at the master's level for elementary and secondary teachers, elementary and secondary principals and guidance counselors. The college is fully accredited by the Northwest Association of Secondary and Higher Schools, is on the approved list of the American Council on Education and is a member of the American Association of Colleges for Teacher Education.

Students who are planning on elementary school teaching but desire the B.A. or B.S. degree rather than the B.A. in Ed. degree must satisfy the requirements for certification as well as the requirements for the degree. Requirements for the B.A. in Ed. degree include all requirements for Washington State Provisional Certification.

### REQUIREMENTS FOR THE BACHELOR OF ARTS IN EDUCATION DEGREE (ELEMENTARY)

TOTAL COLLEGE CREDITS REQUIRED.....	186
GENERAL EDUCATION REQUIREMENT.....	79-91

(See p. 28 for the General Education Requirements for the B.A. in Ed.; Psych. 100 is required in the Social Science area.)

PROFESSIONAL EDUCATION REQUIREMENTS	38
Educ. 203 Psychological Foundations of Education	4
Educ. 204 Social Foundations of Education	4
Educ. 205 Laboratory Experience	2
Educ. 330 General Methods and Laboratory Experiences	3
Educ. 331 Reading-Language Arts Methods	4
Educ. 322 Mathematics Methods	3*
Educ. 333 Social Science and Science Methods	2*
Educ. 376 Student Teaching in Elementary Schools	16*
TEACHING CONCENTRATION	65

The student preparing for elementary teaching (Early Childhood, Primary, or Intermediate) will complete a teaching major consisting of 45 or more credit hours and an elementary teaching minor of a minimum of 19 credit hours. The elementary teaching minor provides breadth in several academic areas including Language Arts, Social Science, Physical Education, Science-Mathematics, Music and Art. Recommended courses in these areas are outlined in the Teacher Education Guide in order to complement the various teaching majors. All students seeking an elementary teaching certificate in Washington state must include a course in History of the Pacific Northwest in their programs.

At least twenty-two of the sixty-five credits required in the teaching concentration must be in courses numbered 300 or above. Academic work of "D" grade, while applying toward graduation requirements, may not be applied toward satisfying the teaching

\*Students preparing for Early Childhood Education take Educ. 334 Early Childhood Development (3) and Educ. 410 Kindergarten Methods (3) in lieu of Educ. 332 and Educ. 333. Student teaching in the Early Childhood Education program is done one-half day each in a Day Care Center and a Kindergarten.

concentration requirements. Twelve upper division hours in the teaching concentration must be in a single department.

Elementary teaching majors for the Bachelor of Arts in Education are as follows:

ELEMENTARY TEACHING MAJORS (1972-73)			
(See <i>Teacher Education Guide</i> for 1972-73 recommended courses.)			
ART			
AREAS OF STUDY	MINIMUM HOURS		
	Lower Division	Upper Division	
Departmental area requirements:			
Design	6		
Drawing	9		
Painting	3	3	
History		9	
Crafts: Weaving		2	
Ceramics		2	
Elective		2	
Sculpture		3	
RECOMMENDED DEPARTMENTAL TOTALS:	18	21	TOTAL 39
Other electives: (In Art, Home Economics, Music)	6		
RECOMMENDED MAJOR TOTALS:	24	21	TOTAL 45
BIOLOGY			
Departmental area requirements:			
General	10		
Ecology or Human Anatomy and Physiology	10	5	
Genetics		5	
Microbiology		5	
Departmental electives		5	
RECOMMENDED DEPARTMENTAL TOTALS:	20	20	TOTAL 40
Other requirements:			
Chemistry, General	10		
Physical Science	10		
RECOMMENDED MAJOR TOTALS:	40	20	TOTAL 60

CHEMISTRY			
AREAS OF STUDY	MINIMUM HOURS		
	Lower Division	Upper Division	
Departmental area requirements:			
General	10		
Qualitative or General	5		
Quantitative	5		
Organic (with Laboratory)		7	
Elective		5	
RECOMMENDED DEPARTMENTAL TOTALS:	20	12	TOTAL 32
Other requirements:			
Biology, General	10		
Microbiology		5	
Physics, General	5		
Geometry		3	
RECOMMENDED MAJOR TOTALS:	35	20	TOTAL 55
ECONOMICS			
Departmental area requirements:			
Principles	10		
Geography		5	
Departmental electives:		8	
RECOMMENDED DEPARTMENTAL TOTALS:	10	13	TOTAL 23
Other requirements:			
Sociology	5		
Anthropology		3	
Political Science	5		
History: European	5		
U.S.	5		
Pacific NW		3	
Geography	5		
RECOMMENDED MAJOR TOTALS:	35	19	TOTAL 54
ENGLISH			
Departmental area requirements:			
Writing	5	or 3	
Language		5	
Genre	10	or 10	
Literature: British	5	or 5	
American	5	or 5	
Upper Division electives		3-5	
RECOMMENDED DEPARTMENTAL TOTALS:	25	15	TOTAL 40
Other electives (language arts)	16		
RECOMMENDED MAJOR TOTALS:	41	15	TOTAL 56

HISTORY			
AREAS OF STUDY	MINIMUM HOURS		
	Lower Division	Upper Division	
Departmental area requirements:			
European	10	5-8	
U.S.	10	5-8	
Pacific Northwest		3	
RECOMMENDED DEPARTMENTAL TOTALS: (Must have at least 5 upper division in both U.S. and European. Remaining 3 hours may be in Far East or Russian history)	20	16	TOTAL 36
Other requirements:			
Sociology	5		
Anthropology		3	
Geography	5		
Political Science	5		
Economics	5		
RECOMMENDED MAJOR TOTALS:	40	19	TOTAL 59

HOME ECONOMICS			
Departmental area requirements:			
Design	5	3	
Needlecraft	2		
Food: Nutrition	5		
Cultural and Aesthetic Aspects		3	
Home Management		5	
Clothing: Textiles	3		
Community:			
Marriage and the Family		5	
Art of Living	3		
Methods:			
Demonstration Techniques		4	
Home Economics Methods for Elementary Teacher		3	
RECOMMENDED DEPARTMENTAL TOTALS:	18	23	TOTAL 41
Other requirements:			
Developmental Psychology		5	
RECOMMENDED MAJOR TOTALS:	18	28	TOTAL 46

MATHEMATICS			
AREAS OF STUDY	MINIMUM HOURS		
	Lower Division	Upper Division	
Departmental area requirements:			
Calculus	20		
Geometry		3	
Algebra		6	
Departmental electives:		3	
RECOMMENDED DEPARTMENTAL TOTALS:	20	12	TOTAL 32
Other electives: (Other math or approved science. Must include one course from elementary minor listing for Science-Math area)	13		
RECOMMENDED MAJOR TOTALS:	33	12	TOTAL 45

MODERN FOREIGN LANGUAGE			
Departmental area requirements:			
Conversation and Structure		10*	
Survey of Literature		5	
Area Civilization Studies		5	
Applied Linguistics		5	
Departmental electives: (for inter-language majors the departmental electives are met by 20 hours of the second language)		10	
RECOMMENDED DEPARTMENTAL TOTALS:		35	TOTAL 35

MUSIC			
Departmental area requirements:			
Theory	24	3	
History and Literature	6	3	
Conducting	4		
Methods		6	
Instrumental Techniques	4		
Applied Ensemble	12	3	
RECOMMENDED DEPARTMENTAL TOTALS:	50	19	TOTAL 69
Other requirements: Physics of Sound	5		
RECOMMENDED MAJOR TOTALS:	55	19	TOTAL 74

PHYSICAL EDUCATION			
AREAS OF STUDY	MINIMUM HOURS		
	Lower Division	Upper Division	
Departmental area requirements:			
Activities (beyond 6-credit PE requirement)		7	
Orientation		3	
Health Education		3	
Officiating		1	
Conditioning and Rehabilitation		3	
Recreation		3	
Methods of Instruction and Evaluation		2	6
Principles of Coaching			3
Senior Block			15
RECOMMENDED DEPARTMENTAL TOTALS:		22	24
Other requirements: Anatomy and Physiology		10	
RECOMMENDED MAJOR TOTALS:		32	24
			TOTAL 56

PHYSICS			
Departmental area requirements:			
General		15	
Physical Science and Society			3
Electronics			5
Departmental Electives		5	
RECOMMENDED DEPARTMENTAL TOTALS:		20	8
Other requirements: Life Science		5	
Chemistry, General		5	
Mathematics, Calculus (Check for placement in beginning mathematics courses)		25	
RECOMMENDED MAJOR TOTALS:		55	8
			TOTAL 63

POLITICAL SCIENCE			
AREAS OF STUDY	MINIMUM HOURS		
	Lower Division	Upper Division	
Departmental area requirements:			
American Government	5	5-8*	
Comparative Government	5	5-8*	
RECOMMENDED DEPARTMENTAL TOTALS:	10	13	TOTAL 23
Other requirements: Sociology	5		
Anthropology		3	
Economics	5		
History: European U.S.	5		
Pacific NW		3	
Geography	5		
RECOMMENDED MAJOR TOTALS:	35	19	TOTAL 54

\*Each person is expected to complete no less than 5 upper division hours in both American and Comparative Government; he should develop one of the two areas to no less than 8 hours, totaling no less than 13 upper division credits in political science.

PSYCHOLOGY			
Departmental area requirements:			
General	5		
Personality	5	3	
Perception, Motivation		5	
Social		5	
Departmental electives:		5	
RECOMMENDED DEPARTMENTAL TOTALS:	10	18	TOTAL 28
Other requirements: Anthropology		3	
Economics	5		
Political Science	5		
History: European U.S.	5		
Pacific NW		3	
Geography	5		
RECOMMENDED MAJOR TOTALS:	35	24	TOTAL 59

SOCIOLOGY-ANTHROPOLOGY			
AREAS OF STUDY	MINIMUM HOURS		
	Lower Division	Upper Division	
Departmental area requirements:			
Sociology		10	8
Anthropology: Indian, American			3
Other ethnic groups			3
RECOMMENDED DEPARTMENTAL TOTALS:		10	14
Other requirements: Economics		5	
Political Science		5	
History: European U.S.		5	
Pacific NW			3
Geography		5	
RECOMMENDED MAJOR TOTALS:		35	17
			TOTAL 52

SPEECH			
Departmental area requirements:			
Speech Communication		10	3
Drama, Oral Interpretation		3	6
Science, Correction			5
Speech Education			5
Practicum in Speech and Drama		1	1
RECOMMENDED DEPARTMENTAL TOTALS:		14	20
Other electives		5	10
RECOMMENDED MAJOR TOTALS:		19	30
			TOTAL 49

**CURRICULA FOR JUNIOR AND SENIOR HIGH SCHOOL CERTIFICATION**  
 Students preparing for teaching in junior and senior high schools complete B.A. or B.S. degree requirements (as outlined on p. 28). Psychology 100 is required in the Social Science area of general education. In addition, a recommendation for a teaching certificate in the State of Washington is made only upon completion of the following requirements:

PROFESSIONAL EDUCATION REQUIREMENTS .....	38
Educ. 203 Psychological Foundations of Education .....	4
Educ. 204 Social Foundations of Education	4
Educ. 205 Laboratory Experience .....	2
Educ. 350 General Methods .....	3
Educ. 351 Learning Activities and Materials	3
Educ. 352 Laboratory Experience .....	3
Educ. 356-365 Teaching Secondary School Subjects .....	3
Educ. 380 or 386 Student Teaching .....	16
TEACHING CONCENTRATION .....	65

*Junior High School Teaching Emphasis.* Of the 65 credits required in this teaching concentration, it is recommended that students preparing for junior high school teaching complete a teaching major (minimum of 45 hours) and a teaching minor (minimum of 20 hours).

*Senior High School Teaching Emphasis.* Of the 65 credits required in this teaching concentration, all may be in one of two areas ordinarily taught in the high schools. If two areas are chosen a minimum of twenty hours must be included in the less preferred area.

Twenty-two upper division credits must be included among the 65 in the teaching concentration. Fifteen of the upper-division credits must be in a single academic department for junior high school teachers and eighteen for senior high school teachers. Academic work of "D" grade, while applying toward graduation requirements, may not be applied toward satisfying the teaching major requirement. Students completing secondary teaching majors in social studies must include a course in History of the Pacific Northwest.

Secondary teaching major and minor requirements are listed in the *Teacher Education Guide* available in the School of Education. Substitutions may be made only with recommendation of the student's adviser and approval of the School of Education Undergraduate Curriculum Committee. A student planning to teach at the junior or senior high school level must be recommended by his major department as well as by the School of Education.

#### OPTIONAL YEAR-LONG INTERNSHIP PROGRAM

An alternate year-long internship program was introduced in the 1970-71 school year which combines the junior methods (Education 330-333 or Education 350-352) and student teaching in an assigned off-campus laboratory school. It is recommended that through careful planning the campus course requirements be completed in the first three college years in order to engage in the full-time internship program in the fourth year. Students considering the internship should confer with their departmental academic adviser as well as the School of Education to consider the feasibility of this program. The internship is also appropriate for persons holding degrees who are preparing for teaching.

#### ADMISSION TO THE SCHOOL OF EDUCATION

When the student enrolls in Educ. 204 (or Educ. 20) during his sophomore year, he is considered a tentative candidate for membership in the School of Education. At this time he is asked to prepare a formal application for admission as a regular member. When this application is approved and the student reaches junior status he may continue the sequence of professional courses. Such approval is based on the following factors:

1. Possession of ideals, competencies and other personal qualities necessary for success in teaching.
2. Completion of the following tests: School and College Ability Tests, Sixteen Personality Factor Questionnaire, New Purdue Placement Test in English.
3. A cumulative grade score of at least 2.20.
4. Preparation of and filing in the office of the School of Education a program of courses which will meet certification requirements.
5. A degree of health equal to that required by the State for certification.
6. A successful interview during the quarter the student is enrolled in Education 204 (or Educ. 20).
7. Students who transfer to the SPC teacher-education program from other colleges must expect to meet the above-mentioned

requirements. In addition, they must present an over-all grade score equal to that required to continue in the teacher-education program of the college from which they transfer.

8. After admission to SPC and following an official evaluation of their work by the Registrar, transfer students should confer with the Dean of the School of Education regarding their program of studies at SPC.
9. In general, transfer students are expected to complete 12 hours including professional courses before being considered for student teaching.

Transfer students who have already taken a course equivalent to Education 204, Social Foundations of Education, must register for Education 20, Educational Programming, prior to or concurrently with Education 330-333, Methods of Teaching in Elementary Schools or Education 350-352, Methods of Teaching in Junior and Senior High Schools.

#### PROFESSIONAL LABORATORY EXPERIENCES

The following laboratory experiences are provided within the teacher education program:

1. "September Opening of School Experience"  
Students are encouraged to engage in a September Opening of School Experience between the sophomore and senior years. The assignment is made for a specific number of full school days in a public school classroom. Frequently a student elects to do this in his home community. Information is obtainable through the Director of September Experience, School of Education, from March 1 to the last Friday in March of each year.
2. Sophomore and Junior Year Laboratory Experiences.

As a part of the sophomore and junior professional "blocks" students engage in a daily public school laboratory experience. These experiences involve one-fourth of the school day and students return to the campus for classes and conferences related to the actual public school assignment. The sophomore block provides an orientation to the profession of teaching. The junior block concentrates on methods and curriculum in the areas and levels

3. Student Teaching

All students preparing for teacher certification are required to complete one quarter of student teaching on a full-day basis. The student chooses the elementary, junior-high or senior-high school level for this major emphasis. All-day student teaching consists of observation, teaching and extra-curricular duties in the public schools for one full quarter and constitutes the student's full academic load for the quarter. A manual for the student-teaching assignment is followed and must be completed. The student teacher works under, and is responsible to, the supervising teacher and the principal of the public school to which the student is assigned. Professional guidance is given by a supervisor who is a Seattle Pacific College faculty member. The latter frequently visits the student in the teaching situation. Periodic group conferences are held. Student teachers are expected to participate in the public school faculty meetings and community and school activities.

*Eligibility for Student Teaching.* Before a student may register for student teaching he must:

1. Be admitted as a regular member of the School of Education.
2. Have a cumulative grade-point average of 2.20 and at least a "C" grade in each of the professional courses prerequisite to student teaching.
3. Have a minimum of eight upper-division credits in a single area, comprising subjects taught in the public school for full-time student teaching at the elementary level. For full-time student teaching at the secondary level, have a minimum of twelve upper-division credits in a single area comprising subjects taught in the public schools.
4. Confirm in writing his desire to student teach one month before this experience is scheduled.

**REQUIREMENTS FOR THE MASTER OF EDUCATION DEGREE**

The general requirements for the Master of Education degree are outlined in the "Graduate School" section of this catalog. Within this framework the School of Education will recommend granting of the degree providing the candidate meets the following specific requirements:

1. Satisfactory completion of 51 credits, including the following courses:

	<i>Credits</i>
Educ. 501 .....	3
Educ. 525 .....	3
Two courses from Educ. 422, 520, 526, 527, 540.....	6
Educ. 532; 591; or 597-599.....	3-9

2. Completion of a total of at least twenty-seven credits, including credits granted for completion of the thesis or project, in courses numbered 500 or above. These 27 credits must be earned within the six year period prior to conferring of the degree.
3. Completion of one of the following three graduate area majors:
  - a. *Instruction and Learning.*
    - 1) Three teaching levels of emphasis include Early Childhood Creative Education, Elementary Education, and Secondary Education. (Alternate programs with emphasis on creative education are available at both the elementary and secondary levels). Curricula for each of the three levels are available in the School of Education.
    - 2) Programs are individualized in the selection of electives. Lists of recommended courses for each of these various areas are available in the School of Education. Or, courses may be elected from one or more departments other than Education.
    - 3) Graduate level laboratory experience (one from Educ. 483, 486, 487, 489, 498, 588).
  - b. *Guidance and Counseling.*
    - 1) Prerequisite: Education 413
    - 2) All of the following: Educ. 414, 415, 438,

447, 550, 561; either 497 (elementary emphasis) or 494 (secondary emphasis); 588, 589, 590.

- 3) The following courses are recommended: Educ. 406, 444, 445, 491, 558, 563, 565, 445, 491, 558, 563, 565.
4. One year of successful teaching. This success in teaching must be attested to by field recommendations received by the School of Education prior to admission to candidacy. As defined by the State Department of Education, "one year of teaching" normally consists of 180 days of full-time teaching. Any alternative teaching experience must be approved by petition to the Graduate Committee of the School of Education.
5. Final approval by the Graduate Council.

**CERTIFICATION**

The School of Education will recommend a regular candidate for the Washington Provisional Certificate to the State Department of Education when he has:

1. Met the regular graduation requirements of Seattle Pacific College for the B.A., the B.S. or the B.A. in Ed. degree or an equivalent degree.
2. Completed the four-year education curriculum listed under requirements for the B.A. in Ed. degree (elementary) or curriculum for Junior and Senior High School certification. Transfer students seeking certification through Seattle Pacific College must earn a minimum of 24 quarter hours in residence at S.P.C. The program must include a minimum of two laboratory experiences (one to be completed at S.P.C.).
3. Been approved as a person suitable for the teaching profession.
4. Satisfactorily passed a health examination within six months prior to certification.

*The Provisional Certificate.* A student who has completed the above requirements is entitled to the Provisional Certificate upon recommendation of the School of Education. This recommendation specifies the subjects and/or grades in which the holder may teach. The certificate received is valid in

the public schools of Washington for three years. It may be renewed once for a three-year period by completing twelve additional quarter credits of college work in excess of requirements for the Provisional certificate in residence. By the time the certificate expires the holder must have completed the fifth college year to obtain the Standard Certificate.

*The Standard Certificate.* To be eligible for the Standard Certificate the applicant must complete a planned five-year college program and at least two years of successful teaching. The remaining credits must be earned subsequent to one year of successful teaching.

State Board of Education rules provide that at least half of the fifth year must be courses acceptable for upper-division or graduate credit. Not more than twelve credits may be completed through correspondence or extension or both.

The program for the fifth year should include courses in general education, the teaching major and professional education according to the needs and interests of the teacher.

The Standard Certificate is valid as long as the holder remains in the teaching profession and for five years thereafter.

*The Elementary Certificate.* Persons who hold the older-style elementary certificates in Washington may still qualify, in accordance with the former standards, for an elementary certificate — the Three Year Elementary. This certificate may be renewed, also according to the former standards. The candidate for this certificate must complete a four-year college course.

*Principal's Credentials.* Special credentials are issued by the Office of the Superintendent of Public Instruction for principalships in elementary and secondary schools. Courses required for principal's credentials are offered during the summer quarter and each quarter in the Evening School. The student must be accepted for candidacy for the Master of Education degree before he can officially be accepted for this credential program.

Students interested in entering one of the principal-credential programs should consult the Dean of the School of Education regarding their experience

as a classroom teacher, their leadership activities in school work, the procedures to be followed in seeking admission to the program, and the courses to be taken.

The program of courses for the credential is of graduate level. It includes the courses required for the master of education degree and approved courses in school administration, learning and evaluation, and background courses in sociology, economics and political science.

The Practicum (Education 588, 589, 590) provides practical experience in the duties of the principal through work in one of the public schools. This course must be taken near the completion of the program and will encompass three quarters' work. Authorization must be secured through the State Superintendent's office by August 1 preceding the year of internship.

To secure the Provisional Credential the student must complete a total of 54 quarter credits in graduate-level courses subsequent to the undergraduate work. Of these, nine must be earned after acquiring the Standard Teaching Certificate.

To secure the Standard Credential the student must complete a minimum of twelve quarter credits of course work, the master's degree program and three years of successful administrative experience at the chosen level subsequent to receiving the Provisional Credential.

**TEACHER PLACEMENT SERVICE**

The third quarter before completion of certification requirements the student should submit in writing an application for credentials and certificate to the Teacher Placement Office, School of Education. Instructions for filling out the application forms will be given at an announced meeting during each quarter registration.

A health examination is required. A fee is charged for the teaching certificate. A placement fee, paid at the School of Education office, covers five sets of credentials to accompany applications for initial placement. Each time further credentials are requested by teacher or school official an additional fee is charged.

The Teacher Placement Service has had outstanding success in placing SPC graduates in the teaching profession.



# School of Music

WAYNE HARWOOD BALCH, *Director*

## GENERAL INFORMATION

The function of the School of Music is twofold: (1) to provide opportunities for all students to study music as an essential part of a liberal education and (2) to serve as a professional school preparing music majors for teaching, graduate study, performance, the ministry of church music and other careers in music.

The advantageous location of the college in a large metropolitan area affords its students cultural and artistic opportunities of great scope and variety. In addition to the many great artists who visit Seattle annually, the regular programs of the Seattle Symphony and the Seattle Opera Association are available to students of the college.

Opportunities for public appearances by music students are numerous both on campus and in the Seattle community. Advanced students also may secure positions as soloists, choir directors and church organists in the greater Seattle area. Seattle Pacific College is one of the institutional sponsors of the educational television station KCTS-TV.

## ACCREDITATION

The School of Music is an Associate Member of the National Association of Schools of Music.

## FACILITIES AND EQUIPMENT

The School of Music is housed in its own building, the handsome modern Crawford Music Building, which provides up-to-date facilities for all facets of music study. Included in this beautiful and highly functional building are classrooms, studios, practice rooms, rehearsal room-recital hall, music and record library, listening room, workrooms, storage areas, lounges and the music office.

Facilities for organ study include two two-manual and two three-manual pipe organs. One of the latter is a 34-rank 1969 installation.

## MUSIC LIBRARY

A very complete and up-to-date collection of music books, scores and reference works as well as periodicals is housed in the main college library. Additional vocal and instrumental scores and an extensive record collection are available in the Crawford Music Building for individual and class use. These collections are constantly being expanded and are supplemented by the music division of the Seattle Public Library.

## MUSIC ORGANIZATIONS

*College Choir.* Best-known among campus music organizations is this group of approximately 50 singers. It performs at major campus events, on television, in Seattle-area concerts and on tour. Membership in the choir is open to all college students on the basis of auditions held at the beginning of each school year.

*Concert Band.* This organization is made up of approximately seventy-five instrumentalists who qualify for membership by previous band or orchestral experience and by audition. Its activities include campus and area concerts and an annual tour.

*Oratorio Society.* This chorus of 150 to 250 voices is open without audition to students, faculty members and residents of the community who wish to participate in the performances of great sacred works. It presents in two concerts each year such oratorios as MESSIAH, ELIJAH, A GERMAN REQUIEM, MAGNIFICAT (Bach), THE CHRISTMAS ORATORIO (Bach), ST. PAUL and THE CREATION.

*College Orchestra.* This chamber orchestra which is heard during the year in both campus and off-campus concerts provides training and experience for orchestral instrumentalists.

*Ensembles.* A number of other credit-bearing musical groups are active in both campus and off-campus presentations. Included are the Chapel Choir, Collegium Musicum, Stage Band, String Quartet, Flute Quartet, Brass Ensemble and other

vocal and instrumental ensembles.

Under music faculty supervision are also the SPC service ensembles: the Victory Quartet and the Carrillon Trio (which together comprise the SPC Singers).

## APPLIED MUSIC STUDY

The School of Music offers individual instruction in piano, voice, organ, strings, woodwinds, brass and percussion. In order to receive college credit in any given quarter the student must take a minimum of eight lessons and practice an average of five hours per week. Any student taking individual instruction in applied music for the first time at SPC must have his registration confirmed by audition in order to receive credit. Class lessons are also available in voice and piano.

Upper-division credit in applied music is given only by action of the music faculty. Juniors and seniors may be registered for lower-division courses.

Lessons missed through the fault of the student will not be made up except at the discretion of the instructor. An excused absence requires twenty-four hours' notice. Lessons missed because of school holidays will be made up at the convenience of the instructor upon request.

There will be no refunds of applied music fees after the first week of the quarter.

Applied music students should not appear in off-campus solo performances without the permission of their respective instructors. No music student should engage in the teaching of applied music without permission of the Director of the School of Music.

## REQUIREMENTS FOR A MAJOR IN MUSIC\*

The School of Music offers four curricula, each having a somewhat different emphasis. They are:

- I. Major in Theory and Literature
- II. Major in Applied Music

\*A minimum of one year of piano study is an entrance requirement.

- III. Major in Music Education
  - A. Secondary Teaching Emphasis
  - B. Elementary Teaching Emphasis

IV. Major in Church Music  
In addition after having spent one full year in one of the above curricular programs a student may construct his own major program, which he will then present together with his rationale to the music faculty. Upon receiving music faculty approval he may then pursue:

- V. A Self-Constructed Music Major

*General Major Requirements for All Curricular Programs (I-IV)* (Some of the following curricula may require in excess of the usual 186 credits required for graduation.)

- A. Required courses in music: 101, 102, 103, 201, 202, 203, 281, 282, 301, 381\*, 384\*.
- B. Applied music: A minimum of 12 hours of which 6 hours must be individual instruction and in one area. Six hours of piano or proficiency is required.
- C. A minimum of 65 credits in music of which 25 credits must be upper division.
- D. Ensemble: A minimum of 4 credits. See individual programs for specific requirements. All music majors are required to participate in Oratorio Society presentations.
- E. Required course in science: Physics 140—Physics of Sound (5 cr.)
- F. Attendance at all departmental recitals and concerts is expected.
- G. Senior comprehensive examination.

Additional specific requirements for each of the four music major curricula:

- I. *Major in Theory and Literature*
  - A. Additional Requirements: Music 307, a senior paper (Music 487-489) or a composition (Music 400-402).
  - B. Upper division electives in Music: 15 credits (including 400-level credits from A above).
  - C. Additional ensemble credit: 2 hours.

\*For Elementary Teaching Emphasis, 381 or 384.

## II. Major in Applied Music

- A. Additional required courses: Music 260, 307. (Voice majors must also take Music 226.)
- B. Applied Music: Required audition for entry into major. 15 additional credits of individual instruction in major area.
- C. Upper division electives in Music: 12 credits (excluding ensembles). These credits may include up to 6 hours of applied music in addition to that detailed in B above.
- D. Additional ensemble credit: 2 hours.
- E. Junior (half) and Senior (full) public recital in major applied area.

## III. Major in Music Education

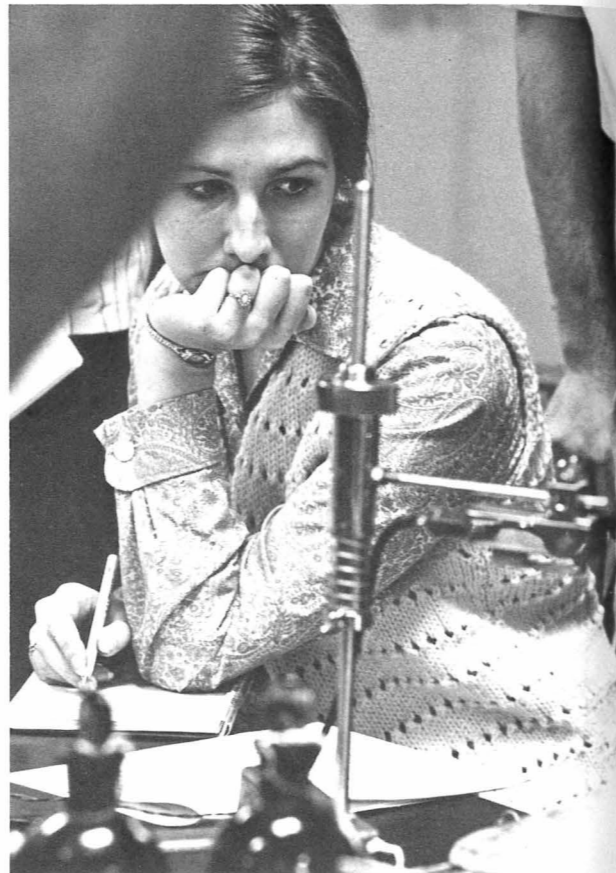
- A. Secondary Teaching Emphasis:
  1. Additional required courses: Music 221, 225 (2 cr.), 227, 260, 307 or 403, 342, 343 (Educ. 363), 362 or 363.
  2. Applied Music: A minimum of 9 additional credits of individual instruction in major area. A minimum of 2 credits in applied voice.
  3. Ensemble: Music Education Majors are required to participate in ensembles throughout their college career. No more than 4 credits will apply toward the major.
  4. Half public senior recital in major applied area or equivalent demonstration of musicianship in such areas as composition or research.
- B. Elementary Teaching Emphasis:
  1. Additional required courses: Music 221, 225 (2 cr.), 227, 260, 341, 342.
  2. Applied Music: A minimum of 3 additional credits of individual instruction in major area. A minimum of 2 credits in applied voice.
  3. Ensemble: Music Education Majors are required to participate in ensembles throughout their college career. No more than 4 credits will apply toward the major.
  4. Recital performances as specified by the music faculty.

## IV. Major in Church Music

- A. Additional required courses: Music 224, 260, 307, 362 375, 377, and 471.
- B. Applied Music: 6 additional credits of individual instruction in the major applied area (Organ or Voice). A minimum of 6 hours in Voice must be included.
- C. Additional ensemble credit: 2 hours. Participation in a choral ensemble all four years is required.
- D. Half public recital in major applied area.

## FEES IN APPLIED MUSIC

For fees in applied music see under "Financial Information" elsewhere in this catalog.



## School of Nursing

DELLA TIEDE, *Director*

### GENERAL INFORMATION

The School of Nursing is a professional School which meets all the requirements of the college for the degree of Bachelor of Science in Nursing. A single undergraduate curriculum in professional nursing is offered to those with no previous preparation in nursing who wish to pursue a degree in a Christian environment. The graduate is qualified for any first-level position in nursing and is prepared for positions which require beginning leadership and administrative competencies. The graduate is eligible to take the Washington (or any other state) licensing examination required for certification as a registered nurse.

The School of Nursing is fully accredited by the Washington State Board of Nursing and the National League for Nursing. It is also a member of the Council of Member Agencies of the Department of Baccalaureate and Higher Degree Programs of the National League for Nursing.

### PHILOSOPHY AND OBJECTIVES

The Christian philosophy of the college and the educational objectives are reinforced by the philosophy and objectives of the School of Nursing.

The faculty believes that every qualified student brings to the college a unique background from which the student makes an individual contribution to nursing and is entitled to freedom to develop to the fullest all potentialities regardless of sex, race, creed or economic status. Commensurate with their maturity, they should be allowed self-direction in establishing goals and managing their own lives.

The faculty recognizes its responsibility to provide opportunity for the student for Christian commitment, self-realization, the development of professional competence, and the growth of a sense of community responsibility.

The faculty believes that the professional nurse should be concerned with the physical, mental, emotional, social, and spiritual needs of the individual.

Based on an understanding of physical and social sciences and the humanities, the curriculum in nursing education attempts to prepare a nurse who is able to give complete patient-centered care; to carry out nursing procedures skillfully and with understanding; to assess patient needs, plan, implement and evaluate a course of action with judgment and perception; to assist in the prevention of disease and the conservation of health; and to strive for competencies for coping with society's increasing health needs.

The faculty believes its curriculum offers new dimensions in the practice of nursing. The curricular organization correlates theory and clinical experience by planning continuity, sequence, and integration of learning which progresses from the simple to the complex. Learning experiences are selected and supervised so that the student may utilize the basic principles of nursing skills in any area where she will serve in cooperation with allied professions and disciplines.

### ADMISSION

Students interested in nursing must apply through the Office of Admissions. High school preparation for nursing includes four years in the language arts, two years of one foreign language, two years minimum of college preparatory mathematics and two years of laboratory science, one of which should be in chemistry.

Those accepted into the college who indicate an interest in nursing are assigned a nursing faculty advisor. Formal application to the School of Nursing is made at the end of the first academic year. The faculty of the School of Nursing evaluates each applicant on the basis of scholarship, health, and personal qualifications for nursing. A grade point average of 2.00 during the first college year is minimal.

*Admission with advanced standing* depends on meeting the requirements established for nursing students. Students contemplating transfer into Seattle Pacific College should have their program of study approved by the School of Nursing.

## CURRICULUM FOR THE BACHELOR OF SCIENCE IN NURSING DEGREE

The entire program is four years and one summer in length. The course work will be similar to that listed below.

First Year	Credits
Biblical Literature 101 or 102 .....	5
Biology 229, 230—Anatomy and Physiology.....	10
Chemistry 111, 230—Inorganic and Organic.....	10
English, Freshman .....	10
Physics 170—Health Sciences Physics.....	5
Psychology 100.....	5
P.E. Activity .....	3
 <i>Summer Session (after first or second year)</i>	
(See General Education Requirements, p. 28)	
Language Arts: Drama, English, Foreign Language, Journalism or Speech.....	5
Fine Arts: Art 180, Music 180 or Speech 180.....	5
History, Political Science, Economics or Geography .....	5
 <i>Second Year</i>	
Biology 301—Microbiology .....	5
Home Economics 360—Family Nutrition.....	3
Nursing 204, 205, 206, 207, 340, 360, 361.....	23
Sociology 110—Survey .....	5
Sociology 352—Marriage and the Family.....	5
 <i>Third Year</i>	
Biblical Literature (Upper Div.).....	3
Nursing 362, 363, 364, 365, 366, 367— Nursing of Children & Adults I, II, III.....	29
Philosophy 101 or Upper Division.....	5 or 3
Psychology 306—Child Growth and Development	5
Biology 350—Introduction to Public Health Principles and Practices .....	5
 <i>Fourth Year</i>	
Nursing 412—Scientific Principles in Nursing Care*.....	3
Nursing 413, 414—Psychiatric Nursing*.....	10
Nursing 415, 416—Community Health Nursing*	8
Nursing 429—Nursing Functions in Gerontology* .....	2
Nursing 428, 429—Advanced Nursing .....	10
Nursing 430—Seminar: History and Professional Trends in Nursing.....	3
Total Credits .....	186

\*Affiliation with the University of Washington

## EXPENSES

General expenses are the same as for other students with the following exceptions:

- (1) Professional lab fee (See Financial Information).
- (2) Uniforms purchased in the sophomore year cost approximately \$60.00. They are laundered by the student.
- (3) Transportation costs between the college and clinical facilities vary from quarter to quarter. Travel by city transit is approximately \$20.00 per quarter, beginning the second year.
- (4) For the community health nursing assignment the student must have a current driver's license and should plan to have access to a car.
- (5) For the two quarters of affiliation with the University of Washington for community health nursing and psychiatric nursing, tuition is paid only to the University. Students are encouraged to live in SPC residence halls during senior affiliation at the University.
- (6) Periodic National League for Nursing achievement tests and the Strong Vocational Interest Test (see Financial Information).
- (7) A physical examination is required prior to beginning clinical experience and prior to graduation.

## SCHOLARSHIPS AND LOANS

Students in the School of Nursing are eligible for financial assistance available to most students. Federal Nursing Scholarships and Loans from the National Institute of Health can be applied for by citizens who are full-time nursing students and who have filed a Parents' Confidential Statement in the Student Financial Aid Office indicating need. In addition, nursing students are encouraged to apply for scholarship funds from local medical societies, medical auxiliaries, hospital organizations and service organizations in the communities. The Nurses' Alumnae Association administers small grants made possible through gifts to the Association.

## School of Religion

FRANK J. KLINE, *Dean*

Seattle Pacific College is committed to a fully integrated Christian world view which sees the life of faith and practice intimately related to all of God's creation. The courses offered in the School of Religion are a planned part of the basic educational function of the college. In turn, courses of study for majors in religion draw heavily on related and available subjects throughout the entire curriculum. Thus, the School of Religion does not stand alone or isolated but encourages that unity in rich diversity which is characteristic of this institution.

Throughout the history of the College, the Word of God has been the center of attention in its religion course offerings. The intent is to maintain and foster the Biblical nature of true evangelical faith. To that end the courses which meet the general education requirements for all students emphasize Scriptural content and interpretation.

In addition to the courses provided for general education, the College offers undergraduate and graduate majors in three pre-professional areas of religious concern: ministerial, mission, and Christian education.

The special student who insists on the best preparation for his service in Christ's name will expect his Christian college education to give him a solid foundation for a Christian worldview. SPC is aware of this challenge and is eager to confer with prospective students of religion with a view to attain this objective.

This is not a professional School of Religion. It's strength, rather, is in being a School of Religion within a strong college that recognizes the Christian ethic in the wholeness of knowledge. The opportunity is present to build largely in terms of strong academic foundations.

Honor students may design their own pattern of courses. All students taking a Missions, Christian Education, or Biblical Literature major, may design their own college pattern to include a co-major or double-major. In this way, a much stronger foundation is assured. The student is better equipped

to go on to "make all men see . . . the manifold wisdom of God" in His unique revelation in Jesus Christ.

## PRE-MINISTERIAL

The *American Association of Theological Schools* is the accrediting agency for all theological education in the U.S.A. at the post-college level. They emphasize that in college studies the pre-ministerial student should develop the ability to face life as it is, with the best the student and college has to offer. To understand men and the ideas and other related factors that make men do as they do—this is the place one starts to be a Christian minister. The SPC School of Religion invites students to plan their college career to meet these demands.

## PRE-MISSIONS

The missionary aim is written into the very foundations of SPC. To be located in the gateway to the Orient, however, is not so important to the airplane traveler today as it was in ship-minded days. Other changes evident in the world of education and science have similarly influenced mission preparation. The Eternal God, the same yesterday, today and forever, however, has made man to grow in general knowledge as well as "in the grace and knowledge" of God-in-Christ. Hence it has become imperative to include an understanding of the social and physical sciences in the total preparation for the Christian mission. These in turn underline the importance of Biblical and theological preparation. The committed Christian missionary, therefore, will study both these emphases in order to be "approved unto God, a workman who needs not to be ashamed, rightly dividing the word of truth" in the fulfillment of our God-given worldmission today. The SPC emphasis on Christian Missions stresses the local community, state and the laymen as well as the worldmission of those who sense God leading them into life-service.

## PRE-CHRISTIAN EDUCATION

The Christian Education major is designed to offer

undergraduate studies as an introduction to professional service in the educational program of the church. The curriculum employs the laboratory method and features youth ministries.

Courses in Christian Education whether as a major, as part of pre-ministerial or pre-missions training or as a supporting field to other studies, seek to equip one to teach God's Word effectively to all age groups. Preparatory courses from the SPC School of Education assures a strong basis for the Christian Education program in the church. These courses will increase one's usefulness as a Christian, whether he pursues a full-time occupation in Christian service or serves voluntarily in a lay capacity in the local church. There is an interdisciplinary emphasis at SPC as part of a Christian liberal arts contribution to the teaching functions of the church.

#### REQUIREMENTS FOR A MAJOR IN BIBLICAL LITERATURE (PRE-MINISTERIAL)

1. Requirements in religion: forty-seven credits (47), twenty of which must be upper division, divided among the fields of study as follows. The required supporting courses may be used to meet general requirements. Women students may substitute certain courses with Departmental approval. Pre-ministerial students see note below.
 

	Credits
a. Biblical studies (including Religion 101 or 102), include the 11 hour general requirements plus 6 pre-missions.....	6
b. Theology (including Religion 220, or its equivalent).....	10
c. Church history (including Religion 340 or History as approved).....	8
d. Practical field (including Rel. 466 or its equivalent).....	10
e. Missions.....	3
2. Required supporting courses:
 

a. Speech 222.....	5
b. Philosophy 101.....	5

NOTE: Pre-ministerial students who plan to attend a graduate theological seminary may substitute courses in some *one* academic field for three credits in

each of the areas of study, except Missions, listed under "1" above; or they may choose to *design* a Religion-Philosophy or Religion-Greek major in consultation with the two departments; or they may choose to pursue a regular academic major, such as English, Greek, History, Psychology or Speech, provided they elect certain basic courses in Religion and Philosophy in consultation with the Departmental chairmen.

#### REQUIREMENTS FOR A MAJOR IN CHRISTIAN MISSIONS (PRE-MISSIONS)

The student taking a full undergraduate major in missions or doing graduate work in missions at SPC may choose from the following to meet the requirements as indicated:

1. General missions curriculum leading to the B.A. degree.
2. Graduate work as individually designed leading to the M.A. degree in Religion.

The basic core of studies in undergraduate missions includes 55 credits in addition to the General Education requirements in Biblical Literature. 35 credits are required and 20 are elective courses. See "Choice" listings below. These elective courses may be used to meet general requirements.

	Credits
1. The Christian Missions.....	55
Undergraduate Major Required.....	35
a. THEOLOGY OF CHRISTIAN MISSIONS Required: 180, 383.....	8
Choice: 343, 395, 485	
b. HISTORY OF CHRISTIAN MISSIONS Required: 280, one Area Study Course.....	6
Choice: 380, 392, 492	
c. METHOD AND THE CHRISTIAN MISSION Required: 490, 498.....	8
Choice: 580	
d. ANTHROPOLOGY-SOCIOLOGY AND THE CHRISTIAN MISSION Required: Gen. Ed.—Bio. 451.....	5
Choice: Relig. 486; Anthro. 432, 455; Soc. 420, 425	

2. Other Required Religion Courses..... 8
  - a. Basic Beliefs (Religion 220)
  - b. Personal Evangelism (Religion 164)
3. Elective Courses (See above "Choice").....20

- b. General Supporting Courses.....15  
(Hist. 340, Phil. 101 and Soc. 352)

#### GRADUATE STUDY

For general requirements in the Master of Arts with a major in Religion, the candidate may emphasize either Biblical Literature or the Christian Mission. See the Graduate School section of this catalog. See below for Christian Education emphasis.

Within the major for a Master of Arts in Religion, it is possible for a graduate student to take his primary course work in the School of Education and do his supporting work and thesis research in the area of Christian Education. Similarly, the services of other departments may be used as one's supporting field in research for a thesis, subject to the approval of the department and the Graduate Council. Graduate level credit up to a total of 15 hours may be approved for transfer, e.g., courses in the Summer Institute of Linguistics at the University of Washington.

The M.A. degree at Seattle Pacific College is not designed to provide a substitute for the theological seminary. This professional function is deemed to be beyond its scope. With the strong interdisciplinary offerings available at Seattle Pacific College it is considered, however, that the flexibility possible in this degree will serve some pastors and other Christian workers who need this broader preparation. Programs may be tailored to individual requirements. The candidate and the department work together to design a specific program to meet the needs of the individual. The entire college stands ready to assist the student to be a better servant of his God and of his day.

*Specific requirements for the Master of Arts degree with a major in Religion:*

1. Undergraduate foundation in religion: advanced study for the master's degree in religion (which consists of at least one year of graduate study beyond the regular four-year college course) builds on a strong undergraduate foundation. Such preparation should be equivalent essentially to one of the S.P.C. undergraduate majors in religion.

#### OTHER FOREIGN SERVICE PERSONNEL

Seattle Pacific College offers pre-medical, pre-dental, pre-engineering, pre-law and other professional, educational and scientific courses which prepare students for world service outside the U.S.A. as well as in our own land. Students who plan to make themselves available for *overseas service* are recommended to consider including some of the following electives in their over-all preparation: Religion 164, 220, 383; 380, 485; 490, 492 or 498, and as much direct Bible study as possible.

#### REQUIREMENTS FOR A MAJOR IN CHRISTIAN EDUCATION (PRE-CHRISTIAN EDUCATION)

The Christian Education major is designed to prepare for service in the church school as an integral part of the community it serves.

The over-all requirements for a C.E. major include prerequisite courses in general education which courses may also be used for general college requirements. A total of 62 hours is required; 26 in specifically C.E., 13 in other Religion courses, and a total of 23 hours in supporting courses. These supporting courses may be used to meet general requirements.

	Credits
1. Christian Education required courses.....	26
a. Foundation of Christian Education 164, 260.....	6
b. Methods of Christian Education (Prerequisite courses—164, 260) 361, 455-456-457, 462.....	14
c. Theory of Christian Education (Prerequisite courses—164, 260) 460, 461.....	6
2. Other required Religion courses.....	13
(220, 383, Biblical Lit. any 3 hours U.D.)	
3. Required supporting courses.....	23
a. Prerequisite courses (before Rel. 361) (Ed. 203, Ed. 205, Ed. 201).....	8

The college graduate who lacks essential foundational courses may find it necessary to take up to one year of further undergraduate study to remove deficiencies before being admitted to candidacy for the advanced degree.

2. Fulfillment of all general requirements for the Master of Arts degree as listed in the Graduate School Section of this catalog (page 32).
3. Completion of graduate-level courses in religion. Of the fifty-one credits of graduate-level courses required, at least thirty-six must be approved religion courses (includes Education 501). Twenty-one of the thirty-six credits (which includes thesis or project and departmental papers) must be in 500-level courses. The Master of Arts degree in Religion with a thesis is the established program; the project program is an alternate plan without a thesis but requiring three papers (one a research project, the other two supporting papers). In most cases the two departmental papers (592-593) will be interrelated with the Religion 591 research project. Any situation where the three papers are not so interrelated will be thoroughly considered upon application by the candidate. Special departmental approval and approval by the Graduate Council are required. A reading knowledge of an approved foreign language is required if needed for either the thesis or non-thesis plan; otherwise, six (6) hours additional course work is required to bring the total to fifty-one credits. Courses in New Testament Greek at the 300 level (and a few other special courses as approved) may apply on a Religion major for the Master of Arts degree, unless the credit already has been applied on the bachelor's degree.

## Other Professional and Pre-Professional Programs

### PRE-ENGINEERING

ROBERT HUGHSON, *Advisor*

The Seattle Pacific College pre-engineering course of studies consists of two years of frequently prescribed engineering curriculum. Second-year courses are chosen on an individual basis, so as to prepare the student for his upper-division specialization: mechanical, civil, chemical or electrical engineering.

Many students choose a three-year curriculum at SPC in order to obtain a broader liberal arts preparation. The resulting five-year engineering degree program offers the student many advantages.

The student applying for admission to the pre-engineering program should make certain that he meets all the admission requirements of the school of engineering to which he will transfer after completing his SPC pre-engineering studies.

SPC offers a four-year program leading to the bachelor of science degree in engineering science. See section entitled "Engineering Science."

### PRE-LAW

F. WESLEY WALLS, *Advisor*

A full four-year college program is recommended for entrance into recognized law schools. Neither the American Bar Association committee on pre-legal education nor leading law schools require any one specifically outlined course of collegiate preparation for admission. They emphasize, however, a wide and solid general educational foundation including an ability to analyze, evaluate and interpret written materials, facility in speaking and writing with clarity and force, capacity for wide and perceptive reading, and an interest in people and their experiences.

An effort is made at Seattle Pacific College to develop a course of study for each individual student in order for him to develop his potential in preparation for entrance into law school. Students are provided information for taking the Law School

Admission Test early in the Senior year.

### THE ADMINISTRATION OF JUSTICE

ROBERT LARSON, *Advisor*

The program of study is available for persons considering careers in juvenile and criminal justice. The careers are many and varied, and may include law enforcement, law, correction, probation, and parole. The recommended courses of study in the program include: Soc. 371—Criminology, Soc. 472—Juvenile Delinquency, Soc. 362—Racial and Ethnic Minorities, Soc. 365—Urban Sociology, Soc. 492—Seminar in Selected Topics (Dilemmas in Law and Justice), Soc. 470—Field Experience, Soc. 495—Readings (Crime and Delinquency), Soc. 496—Research (Crime and Delinquency), Psych. 305—Deviant Personality, Psych. 435—Counseling and Interviewing, Poli. Sci. 448—Introduction to Public Law.

Police Science credits in an Associate of Arts program are acceptable for transfer towards bachelor's degrees.

### SOCIAL WORK

ROBERT LARSON, *Advisor*

Professional social work offers wide opportunities for useful service. Open to the SPC student are careers in public and private welfare agencies, orphanages and other child-care institutions, and juvenile and adult correctional, parole and probation work.

Such service usually requires specialized college, and in many cases graduate, preparation. The student desiring to enter this field should complete a bachelor of arts degree program with a major in either sociology or psychology. Students completing a baccalaureate program are prepared to enter immediately into some types of social work. Other types require graduate studies. Students planning to enter a graduate school of social work should apply to the school of their choice no later than the end of their junior year.

### PRE-MEDICINE AND PRE-DENTISTRY

BURTON DIETZMAN, *Advisor*

At the present time there seems to be general concern for the medical care of U.S. citizens. There are not sufficient trained personnel to open new programs. The need is well publicized and as a result a large per cent of students interested in training for scientific fields are entering the field of medicine. Because of a fixed number of openings, about 12,000 each year, there is very strong competition for these appointments.

To meet this need, a number of plans are being studied which certainly will effect entering freshmen. The total time spent in college and medical school will hopefully be 6-7 years with 3-4 years of post M.D. training. This may mean accepting upper division courses, e.g., biochemistry, genetics, from college and shortening medical school to three years. Many medical schools allow students to challenge their courses and take them by examination. Also there is specialization in medical school rather than all students taking the same training.

Because of the changes in the level of competition and study pattern, few students are admitted into medical school at present without a college degree; where a 3.0 g.p.a. was about average 5 years ago, the current classes are nearer a 3.5 g.p.a.

It is essential that a person decides early in college on a pre-medical course. The sequence of courses is better, and the Medical College Admission Test can be taken with better background by the spring of the junior year, and certain upper division courses can be taken that may count toward basic science in medical school.

To help students understand themselves, the field of medicine and the requirements, a general studies course for pre-medical students has been added to the SPC curriculum. It should be taken in the sophomore or junior year.

The college provides an advisor for pre-professional students. Each student should plan to keep in close touch with the pre-medical advisor and the academic advisor in his field.

*Graduation from SPC.* Under carefully planned

*Other Professional and Pre-Professional Programs /53*

programs, some students complete 70 hours of science in the field of biology, chemistry, physics, of which 30 hours are upper division, and receive their degree from SPC at the end of successful completion of their first year in medical or dental school. (Up to 10 hours of science may be counted from professional school toward the 30 hour requirement.)

<i>Subject</i>	<i>Credits</i>
Chemistry (inorganic including some analytical and organic).....	24-30
Biology .....	15-20
Physics .....	15
English .....	10

In most cases more work should be taken in each area. Many medical schools suggest a knowledge of calculus. The sequence of courses will depend largely on the major area of study. Be sure that the academic advisor is familiar with pre-medical courses and, if possible, is in the area of the major. Additional information may be secured through the college Pre-Medical Advisor.

## MEDICAL TECHNOLOGY

GRAYSON CAPP, *Advisor*

In order to be certified by the Registry of Medical Technologists, all prospective medical technologists must spend a calendar year in clinical training at an approved school of medical technology following their college training. Seattle Pacific College offers a curriculum preparing students for admission to schools of medical technology and maintains a working affiliation with Virginia Mason Clinic and Swedish Hospital of Seattle. However, a student is not obligated to attend either of these hospitals by virtue of the Seattle Pacific College program. Any school of medical technology approved by the Board of Schools of Medical Technology of the American Society of Clinical Pathologists is acceptable.

The student preparing for admission to an approved school of medical technology must present to the Registry of Medical Technologists a transcript showing successful completion of at least 135 quarter

hours and including at least 25 credits in chemistry including Chemistry 225 or its equivalent, 25 credits in biology and 5 credits of college mathematics. A copy of the transcript should be sent to The American Society of Clinical Pathologists, Board of Schools, 710 South Wolcott Avenue, Chicago, Illinois 60612, during the Fall or Winter quarter of the student's last year at Seattle Pacific College. The Registry will in turn validate it, if it is acceptable, and forward the results to school(s) of medical technology chosen by the student. Most approved schools of medical technology will not consider an application complete until they receive notification of approval from the Registry.

Many hospitals provide small stipends and other benefits for the students during the year of clinical training. Further information on this can be obtained from the campus medical technology adviser.

Most prospective medical technologists follow one of two courses of study. The first is a normal four-year college program with careful attention to the requirements mentioned in the foregoing paragraphs. A major in chemistry or biology is preferred. See department requirements in this catalog. The other approach is to use the combined curricula program wherein the student spends three years in a rigid college program and the fourth year in clinical training at an approved hospital, thus satisfying the requirements for a bachelor's degree at Seattle Pacific College and the certification requirements of the Registry of Medical Technologists in four years instead of five years. Students seeking to follow this route must fulfill all the requirements listed in the section below entitled "Combined Curricula." Again a major in chemistry or biology is preferred. It is recommended that whenever possible the student complete a full four-year college program before entering the school of medical technology.

Medical technology students should identify the campus medical technology adviser during their first quarter on campus and keep in close touch with him throughout all stages in planning their schedules.

## RECOMMENDED CURRICULUM

<i>First Year</i>	<i>Credits</i>
English 122 and 224 or 225.....	10
Chemistry 111, 112, 113 (114 optional) .....	13 or 16
Physical education—Activity .....	3
Mathematics (algebra or trigonometry).....	5
Sociology 110 .....	5
Language arts .....	5
Fine arts .....	5
	46 or 49

<i>Second Year</i>	<i>Credits</i>
Chemistry 225 .....	5
Biology 201, 202.....	10
Physical education—activity .....	3
History or Political science .....	5
Psychology 100 .....	5
Biblical literature .....	5
Philosophy .....	5
Fine arts .....	3
Elective .....	5
	46

<i>Third Year</i>	<i>Credits</i>
Chemistry 371, 372 (organic).....	10
Biology 301, 403.....	10
Physics (recommended) .....	15
Biblical literature .....	3
Subjects in major .....	10
	48

<i>Fourth Year</i>	<i>Credits</i>
Chemistry 326 (Instrumental Analysis).....	5
Biology 371 .....	5
Biblical literature (300 or above).....	3
Fine arts .....	3
Social science (300 or above).....	3
Courses to complete major .....	?
Electives .....	?

## COMBINED CURRICULA

(Three years college, one year professional school)

In some cases a student may enter a professional school after he has earned enough college credits to achieve senior standing. Such a student may be granted the bachelor's degree at SPC upon completing the following requirements and procedures:

1. Complete at least three full years of under-

graduate study, including at least two full years (90 quarter credits) at SPC.

2. Complete all requirements for the bachelor's degree, including those for a major, with the exception of upper division elective credit. (See the section entitled "Baccalaureate Degree Requirements.")

3. File with the Registrar not later than the beginning of the junior year an application for a degree and a plan of study under the Combined Curricula. This plan of study must be approved by the student's adviser and Dean of Professional Studies.

4. Complete at least one year of full-time study at an approved professional school. The student must file with the SPC Registrar a transcript showing satisfactory completion of this year of professional study, which must include enough credits to bring the college total to at least 186 quarter credits.

5. Pay the graduation fee.

6. Observe all SPC standards and regulations during the year in professional school, on the same basis as if in residence at the college.

## Evening School

Seattle Pacific College offers a limited number of evening classes.

Evening classes offer advantages to students who cannot take regular day work. Students may meet the fifth-year teacher certification requirement or work toward the master's degree. They also enable the college to utilize the services of professional educators of the Seattle area, who make valuable professional contributions to the program.

Courses in religious education are offered each quarter to church and Sunday school workers who wish to pursue additional studies in the church education program.

The Evening School is not an extension program inasmuch as it offers no sub-college courses. Evening classes are taught by regular SPC professors and by other competent college-level instructors. All classes meet the day-session standards. Admission requirements for evening classes are the same as those for day classes.

Prospective students desiring further information should request the Evening School bulletin, published for each of the three quarters of the regular college year.

## Summer Session

Seattle Pacific College offers the equivalent of an academic quarter of study in its eight-week Summer Session. This session is divided into two four-week terms and normally opens in the third week of June and closes before the middle of August. Class periods are longer than other terms to compensate for the shortened number of weeks.

The Summer School appeals particularly to school teachers and administrators of both elementary and secondary grades. The wide variety of courses in education and related fields on both the undergraduate and graduate levels gives opportunity to work toward either original or advanced certification and to fulfill requirements for the master of education degree.

The Summer Session offers courses in liberal arts and pre-professional areas to meet the needs of pastors, Christian workers, homemakers, recent high-school graduates and others who wish to advance their academic programs or pursue studies

for personal enjoyment.

Both men's and women's residence halls are open, but no provision is made for residents to do their own cooking. Dining facilities are available on campus. For detailed information, the prospective student is advised to contact the Office of Academic Administration for a summer bulletin.

## Institute for Research

The Seattle Pacific College Institute for Research is a research organization of the college, and is composed of faculty members interested in advanced study and research.

The Research Council supervises the work of the Institute.

The institute promotes departmental seminars featuring local and visiting speakers on topics of scholarly interest and seeks to assist those looking for research opportunity and funding.

Research and research-training grants from private and governmental foundations make possible undergraduate and faculty projects during the summer months as well as the regular college year. Work opportunities are available to students from time to time on the institute's research projects. Students desiring to participate should apply to the institute director.



# Description of Courses

The following pages contain a list of the academic courses offered by the college.

Courses numbered 100 to 299 are designed primarily for freshmen and sophomores, 300 to 399 primarily for juniors and seniors, and 400 to 499 primarily for seniors and graduate students. Courses numbered 500 and above are open only to graduate students. Graduate credit is allowed only to students holding an accredited bachelor's degree at the time of enrollment in the course.

Lower division, that is 100 and 200 level courses, are usually offered each year. Upper division, that is 300 and 400 level courses, frequently are offered alternate years. Graduate courses are offered according to demand. See the yearly Time Schedule for the year's offerings.

Two numbers connected by a hyphen (thus: 101-102) indicate a course which usually affords credit only when both parts have been completed. The instructor's permission must be obtained if a student is to receive credit for a single quarter of such a course. Two numbers connected by a comma (thus: 101, 102) indicate two courses with a definite sequence, the first of which may be taken with credit whether the second is completed or not.

The college reserves the right to cancel any course in which the enrollment is less than six.

## CREDITS

Courses are listed as carrying a given number of credits, as indicated by the number in parentheses following the course title. Usually credit is determined by the number of class sessions held each week, e.g., the five-credit course meets five times a week, the two-credit course, twice a week. In laboratory

work or activity-type courses, two and sometimes three periods are considered equivalent to one hour of lecture.

## CURRICULAR CHANGE

The curriculum at Seattle Pacific College is under constant review by the several Departments and the Academic Affairs Committee. The college reserves the right to make those changes which are considered necessary and proper during the course of the year.

## DEPARTMENTAL FACULTY

The listing of faculty in each department includes those offering courses in 1971-72.

## Art

*Assistant Professor:* LARRY METCALF, *Chairman*  
*Instructor:* MICHAEL W. CALDWELL, *Director of Art Center Gallery*  
*Part-time Lecturers:* JOAN BLOEDEL, DAVID HARRIS, NGAIRE HIXSON

The purpose of the program in art is to acquaint the student with the fundamental elements and principles of visual art, to explore the techniques of several art media, and to provide historical background in order to encourage an awareness of the cultural value of art. The curriculum is designed as a foundation training on which to pursue

graduate study, begin work professionally or to enter the field of art education. The department reserves the right to retain student work submitted for credit for temporary or permanent exhibition.

### REQUIREMENTS FOR A MAJOR

A total of forty-five credits in the department, including twenty-four upper division credits, eight credits in drawing, six credits in design, three credits each in painting and sculpture and nine credits in art history. Art 180 may not be included in this total. Concentrations for teacher preparation are listed under School of Education.

Prior to graduation, seniors are required to present a comprehensive portfolio of work completed during their studies.

### Courses

- 110, 111, 112 **DRAWING STUDIO (3) (3) (3)**  
The study of line, perspective, value and composition. Media: pencil, charcoal, ink, pastel and watercolor. Projects from life, still-life and landscape. Emphasis in 110, line; in 111, value; and in 112, composition.
- 180 **THE VISUAL ARTS (5)**  
An introductory course designed to develop ability to perceive and understand visual forms through basic exercises in the problems and materials of drawing, design, painting, sculpture and the crafts. Three hours lecture and four hours studio per week.
- 202, 203, 204 **DESIGN STUDIO (2) (2) (2)**  
A study of the fundamentals of the visual arts with application of the elements and principles to projects in a variety of media and with special emphasis on practical design problems. Emphasis: 202—two dimensional design in commercial art; 203—three dimensional design in industrial art; 204—principles of art in interior design.
- 211, 212, 213 **PAINTING STUDIO—OIL (3) (3) (3)**  
Emphasis on materials and techniques of acrylic and oil painting. Analysis of problems in two dimensional composition and the expression of volume on the two-dimensional plane.
- 302, 303, 304 **DESIGN STUDIO (3) (3) (3)**  
*Prerequisite: Art 202, 203, and 204 or consent of instructor.*  
Application of design principles to practical problems in a sequence of courses in the following fields: 302—commercial design; 303—industrial design; 304—interior design.
- 310 **DRAWING STUDIO—FIGURE (3)**  
A course in the problems of anatomical structure with sketching and drawing from the draped model.
- 311, 312, 313 **PAINTING STUDIO (3) (3) (3)**  
*Prerequisite: 1 quarter of Painting Studio—Oil, or consent of instructor.*  
Painting in oil with projects in landscape, figure and portrait with emphasis on individual expression and the study of styles.
- 315 **PAINTING STUDIO—WATERCOLOR (3)**  
Investigation of a range of technical skills in the use of traditional watercolor.
- 319, 320, 321 **CRAFTS STUDIO—METALS (2-3) (2-3) (2-3)**  
A study of the raising, soldering and forging of metals into utensils and decorative forms such as jewelry.

- 322, 323, 324 **CRAFTS STUDIO—WEAVING (2-3) (2-3) (2-3)**  
A study in the use of various types of looms beginning with the hand loom and its application to weaving with reed and other fiber, and expanding into the use of the table and floor looms and the complexities of weaving a tapestry or fabric.
- 325, 326, 327 **CRAFTS STUDIO—CERAMICS (2-3) (2-3) (2-3)**  
A study in the design and construction of pottery. Projects will include several hand processes of construction, glazing and packing and firing the kiln.
- 328 **CRAFTS STUDIO—PAPER (2)**  
Creating two and three dimensional shapes and forms in paper, including the application of several elements of art to the paper medium.
- 329 **CRAFTS STUDIO—BOOKBINDING (2)**  
The design and construction of pamphlets, folders, and books. Experimentation with a variety of materials applicable to the bookbinding craft.
- 330 **CRAFTS STUDIO—FABRICS (2)**  
The design of decorative fabrics through a variety of methods, including batik, printing, and stitching.
- 340 **FILM AS ART (2)**  
The search for a personal interpretation of film through a survey of the history, esthetics, technique, and theory of film. The viewing and criticism of films, with the final objective being the making of a film.
- 346 **ART EDUCATION (3)**  
A course in the principles and elements of art as related to a variety of media with direct application to use in the elementary classroom. Special consideration will be given the role of art in the curriculum and understanding the perceptual development of children. Studio periods will be augmented with lectures and discussions.
- 347 **ART EDUCATION—SECONDARY (3)**  
A study of art in the secondary school with investigation of several appropriate media and with special emphasis on development of an art curriculum. Studio periods will be combined with lectures and discussions.
- 351, 352, 353 **PRINTMAKING STUDIO (3) (3) (3)**  
A study of graphic art with projects in several of the printing media including woodcut, serigraph and collagraph.
- 370, 371, 372 **SCULPTURE STUDIO (3) (3) (3)**  
A study of three-dimensional form and composition with the several media of sculpture. 370—Built-up material such as clay, plaster, metal. 371—Carving techniques in wood and stone. 372—Casting in bronze and other media.
- 380 **HISTORY OF ANCIENT ART (3)**  
A survey of the pictorial and plastic expression of the ancient Mediterranean cultures to the end of the Roman empire.
- 382 **HISTORY OF CHRISTIAN ART (3)**  
A survey of the symbolic, pictorial and plastic expressions of the Christian faith with particular emphasis on origin of forms and their development through the Renaissance. Consideration will also be given to contemporary examples of ecclesiastical art and architecture.
- 383 **HISTORY OF RENAISSANCE ART (3)**  
A survey of the pictorial and plastic expression of the Renaissance including the Mannerist and Post-Renaissance development.
- 385 **HISTORY OF MODERN ART (3)**  
A survey of the plastic and pictorial expressions of Europe and America from the 18th century to the present with particular emphasis on 20th century development.
- 402 **INDIVIDUAL PROJECTS IN DESIGN (3 per quarter—maximum 9)**  
*Prerequisite: Permission of instructor.*  
A tutorial course with individual investigation of problems in a particular area of design.

- 410 **INDIVIDUAL PROJECTS IN PAINTING (3 per quarter—maximum 9)**  
*Prerequisite: Permission of instructor.*  
A tutorial course with individual investigation of problems and techniques of painting.
- 420 **INDIVIDUAL PROJECTS IN CRAFTS—CERAMICS (3 per quarter—maximum 9)**  
*Prerequisite: Permission of instructor.*  
A tutorial course with individual investigation of problems in ceramics.
- 421 **INDIVIDUAL PROJECTS IN CRAFTS—WEAVING (3 per quarter—maximum 9)**  
*Prerequisite: Permission of instructor.*  
A tutorial course with individual investigation of problems in weaving.
- 422 **INDIVIDUAL PROJECTS IN CRAFTS—METALS (3 per quarter—maximum 9)**  
*Prerequisite: Permission of instructor.*  
A tutorial course with individual investigation of problems in metals.
- 446 **WORKSHOP IN ELEMENTARY ART (2)**  
*Prerequisite: Teaching experience.*  
An application of the visual arts to the elementary school child. A foundation for an art program, including motivation of the child and integration of art into the elementary curriculum.
- 450 **WORKSHOP IN ELEMENTARY ART: DRAWING AND PAINTING MEDIA (2 each—mx. 8)**  
*Prerequisite: Teaching experience.*  
Crayon, Pencil and Charcoal, Tempera and Watercolor, Ink. Experimentation and practice with one of the above media, with particular emphasis on drawing and painting as related to the elementary child.
- 470 **INDIVIDUAL PROJECTS IN SCULPTURE (3 per quarter—maximum of 9)**  
*Prerequisite: Permission of instructor.*  
A tutorial course with individual investigation of problems and techniques of sculpture.
- 498 **PRO-SEMINAR IN ART (1) Offered on demand**  
*Prerequisite: Senior standing with a major in Art, and consent of the head of the department.*  
An investigation of the philosophy and methods of various practicing artists and discussion of the professional concerns in several areas of the visual arts.

## Biology

*Professors: CHARLES F. SHOCKEY, Acting Chairman, RONALD C. PHILLIPS, ROSS F. SHAW, HAROLD T. WIEBE*  
*Assistant Professor: DAVID STEWART BRUCE*

The objectives of the department are as follows:

- To contribute to the general education of students so that they will perform more intelligently as citizens.
- To offer a major leading to teaching, work and

study in professional programs and graduate schools.

### REQUIREMENTS FOR A MAJOR

Minimum of eight courses (40 credits) in the department, 300-498. Specific courses required are 301 or 460, 310, 320 or 371 plus Seminar 490, 491, 492. Students majoring in biology are also required to take Chemistry 371, 372. A program for each student will depend on his professional goals and departmental advisement.

### Courses

#### General Education Biology

*(Courses in this section are not applicable to a biology major)*

- 100 **BIOLOGICAL SCIENCE (5)**  
Discussion of physical and biological principles which provide a basis for scientific literacy of selected topics such as environment, population and heredity. Five hours lecture, discussion-demonstration.
- 229, 230 **HUMAN ANATOMY AND PHYSIOLOGY (5) (5)**  
Course 229 includes skeletal, muscular and nervous systems. Course 230 includes circulatory, respiratory, digestive, endocrine, excretory and reproductive systems. Three lectures and four hours laboratory per week.
- 316 **LIFE (3)**  
*Prerequisite: Upper division standing.*  
Discussion of the characteristics of living matter and its effects on society. Study of the biological phenomena and problems that most affect man: population, reproduction, birth control, genetic engineering, pollution and evolution, etc. Three hours lecture, discussion, seminars.
- 451 **HEALTH PROBLEMS IN PRIMITIVE COMMUNITIES (5)**  
*Prerequisite: Upper division standing.*  
Problems of healthful living in primitive areas, including sanitation, nutrition and climatic conditions. Designed for ministerial students, missionary candidates and government workers going to primitive areas. Five hours lecture.

### General Biology

- 201, 202 **GENERAL BIOLOGY (5) (5)**  
*Prerequisite: Biology 201 for 202. General Chemistry recommended.*  
Study of biological processes, structure and interrelationships of living organisms.  
201: A study of cellular and subcellular morphology, reproduction, development, energy utilization and biological theories past and present.  
202: A study of biological interrelationships on an organism level including: morphology, reproduction, ecology and physiology. Three lectures and four hours laboratory per week.
- 301 **MICROBIOLOGY (5)**  
*Prerequisites: Biology 202 and ten hours of chemistry or permission of instructor.*  
Introduction to methods, morphology, physiology and human significance of micro-organisms. Three lectures and four hours laboratory per week.



310 ECOLOGY (5)

Prerequisite: Biology 202 or equivalent. Interrelationships of animals and plants and environmental factors influencing their distribution. Three lectures and four hours laboratory per week.

320 PRINCIPLES OF DEVELOPMENT (5)

Prerequisite: Biology 202 or equivalent. Principles of development as related to plants and animals. The laboratory will be primarily devoted to experimental and descriptive approaches to the study of the development of vertebrates. Three lectures and four hours laboratory per week.

332 COMPARATIVE VERTEBRATE ZOOLOGY (5)

Prerequisite: Biology 202 or equivalent. Natural history and comparative morphology of vertebrates. The laboratory will be primarily dissection of fish and mammals and studies of complementarity of structure and function. Seven hours of lecture-laboratory per week.

343 TAXONOMY OF VASCULAR PLANTS (5)

Prerequisite: Biology 202 or equivalent. An introduction to taxonomy with special emphasis on flowering plants. Three lectures and four hours laboratory per week.

371 GENETICS (5)

Prerequisite: Biology 202 or equivalent. Principles of heredity and their application. Four lectures and two hours laboratory per week.

400 DEPARTMENTAL STUDIES (1-5)

These sections offered at Departmental discretion. 1. Desert Birds; 2. Marine Problems; 3. Biology of the Pacific Coast; 4. Birds of the Northwest; 5. Alpine Flora; 6. Symbiotic Relationships; 7. Fresh Water Biology; 8. Conservation; 9. Nature Education; 10. Applied Microbiology; 11. Genetics of Man; 12. Marine Studies of the California Coast; 13. Tropical Marine Biology; 14. Other.

403 MICROSCOPICAL METHODS (5)

Prerequisite: Biology 202 or equivalent. Techniques in preparation of microscopical specimens. Discussion of critical methods of light microscopy. Seven hours lecture-laboratory per week.

412, 413 ANIMAL PHYSIOLOGY (5) (5)

Not offered 1972-73. Prerequisite: Biology 202 or equivalent and 10 hours Chemistry (460 recommended). Prerequisite for 413 is 412 or permission of instructor. Course 412 is a study of the function of the animal organism, with emphasis upon higher vertebrates: cellular, cardiovascular, respiratory, digestive and metabolic physiology from a physical and chemical standpoint. Course 413 is a continuation of 412, with emphasis upon neuro and endocrine coordinating systems, and muscle, renal and reproductive physiology of higher vertebrate organisms. Experimental approach in laboratory developing principles presented in lectures. Four lectures and one three-hour laboratory per week.

450 ENVIRONMENTAL PHYSIOLOGY (5)

Prerequisites: Biology 202, Biology 310, 412 and 413 recommended. Study of organisms in relation to the physical factors of the environment. Examination of physiological and biochemical aspects of adaptation. Four lectures and one three-hour field trip or laboratory per week.

454 EVOLUTION (3)

Prerequisite: Biology 371 or permission. A course designed to acquaint the student with current and past thinking dealing with origins and development. A critical examination of evolution with investigation of available information regarding the paleontological record, fossil man, mutation and speciation. Three lectures per week.

460, 461 MOLECULAR BIOLOGY (5) (5)

(See Chemistry Section, courses 460, 461.) 490, 491, 492 SEMINAR (0 or 1) (0 or 1) (0 or 1) Required for major. Oral report and discussion of selected topics.

497 READINGS AND CONFERENCE (1-3)

Prerequisites: Permission and 15 credits upper-division. May be taken for credit once. Grade issued upon completion of project.

498 BIOLOGICAL RESEARCH (1-3)

Prerequisites: Permission and 15 credits upper-division. May be taken for credit once. Grade issued upon completion of project.

Marine Biology

400 DEPARTMENTAL STUDIES (1-5)

2. Marine Problems; 3. Biology of the Pacific Coast.

432 MARINE INVERTEBRATES (5)

Prerequisite: Upper-division standing with 10 credits in zoology or biology. Marine invertebrates: their habits, habitats, identification and interrelationships. Lectures and field collection.

444 MARINE BOTANY (5)

Prerequisite: Biology 202 or equivalent. Marine algae and spermatophytes, classification, morphology and ecology. Lectures and field collection.

Environmental Biology and Health

310 ECOLOGY

See above.

315 ENVIRONMENTAL AND PUBLIC HEALTH PROBLEMS (5)

Prerequisite: Upper division standing. Problems of public health, including problems in the area of disease transmission and control, immunity, sewage disposal and water supply, milk and other food, geriatrics, accidents and alcoholism. Five hours lecture.

350 PUBLIC HEALTH PRINCIPLES AND PRACTICE (5)

The meaning of public health, the principles and practices involved, the agencies concerned and a special section dealing with the particular facets of epidemiology and biostatistics. Five hours lecture.

363 FOOD MICROBIOLOGY (5)

The part played by micro-organisms in production of certain food products, their influences on flavors, odors and other quality factors, and their relation to spoilage of food and to food poisoning. Three lectures and four hours laboratory per week.

400 DEPARTMENTAL STUDIES (1-5)

Offered for enrichment of the biology major depending on student intent and qualification of the faculty.

450 ENVIRONMENTAL PHYSIOLOGY

See above.

Chemistry

Professors: BURTON D. DIETZMAN,

WESLEY E. LINGREN, Chairman

Associate Professor: PAUL A. LEPSE

Part-time Assistant Professor: GRAYSON L. CAPP

The chemistry department is well prepared to serve students desiring to prepare for a career in chemistry. It is equally capable of providing a basis for

continued studies in medicine, dentistry, engineering and the sciences as well as satisfying the student desiring only a broader liberal arts viewpoint of physical science. (See also the "Physical Science" section for additional courses that meet the liberal arts degree general science requirements.)

REQUIREMENTS FOR A MAJOR

B.S. in Chemistry. This degree requires a minimum of 60 credits in chemistry excluding 101, 230, and 400. The 60 credits will include: General and Quantitative, 111, 112, 113, 225 (18 credits) or Honors Chemistry 221H, 222H, 223H (15 credits); Physical Chemistry 351, 352, 353 (11 credits) and laboratory 361 (2-5 credits); Organic Chemistry 371, 372, 373 (15 credits); Independent Study in Chemistry 480 (9 credits).

Electives in chemistry from any of the courses listed in the chemistry section exclusive of the above listed requirements. It is suggested that Chemistry 470 be included among the electives.

In addition, mathematics through 127 or equivalent is required. This is to be taken prior to or concurrent with Chemistry 351. It is recommended that Mathematics 225, 226, 227, 402, 403 be taken if possible.

Physics 101, 102, 103 with laboratory or equivalent are required. These are to be taken prior to or concurrent with Chemistry 351.

The general education language requirement should be met with either German, French or Russian.

This course of study would be excellent preparation for a professional career in chemistry.

B.A. in Chemistry. This major requires a total of 45 credits excluding Chemistry 101, 230 and 400. This total will include General and Quantitative 111, 112, 113, 225 (18 credits) or Honors Chemistry 221H, 222H, 223H (15 credits). Organic Chemistry 371, 372, 373 (15 credits); Physical Chemistry 351, 352, 353 (11 credits) and laboratory 361 (2-5 credits) or Biochemistry 460, 461 (10 credits) and Chemistry 326 (5 credits).

In addition, a one year sequence (including laboratory) in physics is required and calculus through

Mathematics 127 is strongly recommended.

This major will provide an excellent basis for pre-professional training in medicine, dentistry and medical technology, as well as certain non-health-related fields.

Chemistry Honors Program

Highly qualified students majoring in chemistry may participate in a four-year honors chemistry program. Details may be obtained from the departmental chairman.

Chemical Education

Students preparing for the teaching profession at the elementary level should take Chemistry 101 or 111 or 221H. On the junior high level, fifteen hours of freshman chemistry provides an appropriate basis. Students preparing for a secondary certificate should complete the requirements for a B.A. in chemistry including physical chemistry and qualitative analysis.

Medical Technology

Medical technology students should complete a B.A. in chemistry with the biochemistry 460, 461 and chemistry 326 option. Less mathematics is needed and physics is strongly recommended but not required.

Courses

101 INTRODUCTION TO CHEMISTRY (5)

Prerequisite: 1/2 years high school algebra. This course is not open to students with more than one semester of high school chemistry. Examines the structure of matter and the tools and methods used by the scientist. Simple reactions and some current applications are studied. Four lectures and one two-hour laboratory period each week. Will apply to the general education requirements.

111, 112, 113 GENERAL CHEMISTRY (5) (5) (3)

Prerequisites: 111 requires 2 years high school mathematics, 1 year high school chemistry or 101 with "C" or better; 112 requires 111 or 221H; 113 requires 112 or 222H. The standard freshman chemistry course. Recommended for physical and biological science majors, pre-professional people in health science, e.g., pre-medical, and for those students desiring to fulfill the general education requirement. Atomic structure, states of matter, chemical equilibria, kinetics, introductory thermodynamics, properties of matter, inorganic reactions. 111 and 112 have three lectures and two two-hour laboratory periods each week. 113 meets three times each week for lecture only. Students receiving unsatisfactory scores on a chemistry department placement test will be advised to withdraw.

114 QUALITATIVE ANALYSIS (3)

Prerequisite: Chemistry 112 or 222H; can be concurrent with 113. Identification of selected cations and anions using classical qualitative chemical tests. Two two-hour laboratory periods and one conference each week.

221H, 222H, 223H GENERAL AND QUANTITATIVE CHEMISTRY (5) (5) (5)

*Prerequisite: Invitation or permission.*

A three quarter honors course designed specifically for the outstanding student with demonstrated ability, background and interest in science. Qualified students will have at least 1 year high school chemistry, 2 years high school mathematics, superior scores on the college entrance examination, 3.5 or better high school g.p.a. and lower division standing. States of matter, thermodynamics, equilibria, kinetics, electro-chemistry, quantum theory, chemical bonding, inorganic reactions, biochemistry and polymers. Three meetings and four to six hours of laboratory each week.

Laboratory work will emphasize quantitative analytical techniques and will evolve into individual independent research problem-oriented work the final quarter. Laboratory work is at least equivalent to classical quantitative analysis.

225 QUANTITATIVE ANALYSIS (5)

*Prerequisite: Chemistry 112 or equivalent.*

Recommended for health science students including pre-medical and medical technology; required of chemistry majors that do not complete the 221H, 222H, 223H sequence. Analytical methods in wet chemistry, both gravimetric and volumetric, and introduction to instrumental methods. Two lectures, one conference and eight hours of laboratory work each week.

230 ORGANIC AND BIOLOGICAL CHEMISTRY (5)

*Prerequisite: Chemistry 111 or 221H.*

The simpler laws of organic chemistry including nomenclature and classification. Simple chemistry of carbohydrates, lipids and proteins. Integration of metabolism. Chemistry of heredity. Four lectures and one two-hour laboratory per week.

301 PRE-MED FIELD EXPERIENCE (3)

*Prerequisites: "B" average and permission. Required of all pre-medical students prior to the fall quarter of their junior year.* Students in the course will be assigned readings dealing with the general aspects of medicine as recommended by the AMA. There will be five days of full time observation of the activities of a practicing physician. Lectures will be on the nature and expectations of medical schools. The student will submit a plan of study for the balance of his undergraduate career.

327, 328 ELECTRONIC INSTRUMENTATION (4) (4)

*Prerequisites: Physics 226 or 362 or permission. (See Engineering 327, 328 for description.)*

351 PHYSICAL CHEMISTRY—THERMODYNAMICS (4)

*Prerequisite: Chemistry 113 or 223H, Physics 103 or 203H and Mathematics 127 (either the mathematics or physics may be taken concurrently). (See also Physics 351.)*

Equilibrium and non-equilibrium properties of gases, liquids and solids from thermodynamic processes.

352, 353 PHYSICAL CHEMISTRY (4) (3)

*Prerequisite: Chemistry 351. Physics and/or calculus may be taken concurrently.*

Quantum theory, structure of matter, chemical kinetics, phase equilibria, electrochemistry. Four meetings per week in 352; three meetings per week in 353.

361 PHYSICAL CHEMISTRY LABORATORY (2-5)

*Prerequisite: Chemistry 225 or 223H or equivalent and 352 (may be taken concurrent with 352).*

Generally, two experiments per credit are required, including a written report and analysis of the reliability and limits of error of the results for each experiment. May be repeated up to total of 5 credits.

365 ORGANIC PREPARATIONS (2-5) Offered on demand.

*Prerequisite: Chemistry 372.*

Synthesis selected from the literature of organic chemistry. Recommended especially for students who plan to do a research project in organic chemistry.

371, 372 ORGANIC CHEMISTRY (5) (5)

*Prerequisite: Chemistry 112 or 222H.*

Structure, nomenclature, reactions and synthesis of organic compounds; theory and mechanisms of organic reactions. Three class meetings, one conference, and three to four hours of laboratory per week. Laboratory work will include basic techniques used in the organic laboratory and preparations and properties of representative organic compounds.

373 ORGANIC CHEMISTRY (5)

*Prerequisite: Chemistry 372*

Structure determination of organic compounds using spectroscopic and chemical methods. Two meetings, one conference, and eight hours of laboratory per week.

400 CURRENT TOPICS IN CHEMISTRY (3)

A non-laboratory course dealing with selected chemistry topics of general interest. Especially recommended for fulfillment of the upper-division general education science requirement.

460, 461 BIOCHEMISTRY (5) (5)

*Prerequisites: Chemistry 372 (Chemistry 353 recommended).*

Chemical properties of biological compounds: carbohydrates, lipids, amino acids and proteins, and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphorylation. Integration of metabolism: biochemical genetics, metabolic regulation. Four lectures and one three-hour laboratory per week.

480 INDEPENDENT STUDY IN CHEMISTRY

*(Credit variable up to a maximum of 15; course may be repeated within this limit.)*

*Prerequisite: Permission of the department.*

Various kinds of learning experiences are possible here. Undergraduate research projects, independent study of special chemical topics, approved on-the-job work experience are typical of the allowable possibilities. Other reasonable learning experiences proposed by the student will also receive careful consideration.

490 SEMINAR (1)

*Prerequisites: Upper division standing or permission.*

Topics of current interest discussed in special lectures. May be repeated up to three credits.

Offered Alternate Years

326 INSTRUMENTAL ANALYSIS (5) 1972-73

*Prerequisite: Chemistry 223H or 225.*

Quantitative theory and laboratory emphasizing electrical and optical analytical techniques. Especially useful for medical technologists, pre-medical and pre-dental students, physical and biological science majors. Three lectures and six hours of laboratory each week.

415 INORGANIC CHEMISTRY (3) 1973-74

*Prerequisites: Chemistry 351 or concurrent with 351 or permission.*

Modern descriptive inorganic chemistry with emphasis on selected theoretical topics.

450 SELECTED TOPICS IN ORGANIC CHEMISTRY (3) 1973-74

*Prerequisite: Chemistry 372.*

Includes a library research paper on a topic in organic chemistry selected by the student, and lectures and class discussion on other selected topics.

470 QUANTUM CHEMISTRY (3) 1973-74

*Prerequisite: Chemistry 352 or concurrent with 352 or permission.*

An axiomatic development of the quantum theory with special attention to problems of chemical interest.

## Economics and Business

*Professor: MENDAL B. MILLER, Chairman*

*Associate Professors: ARNOLD J. CARLSON,*

*DANIEL L. HARRIS*

*Lecturer: PAUL GIBSON*

*Part-time Lecturers: MARKY BARRETT, JOHN HANNA,*

*KENNETH W. SMITH*

Professional training for a career in business requires not only a comprehension of business analysis and procedures, but also the capability to understand and work with people. Accordingly, majors in economics and business are encouraged to pursue a college program of broad spectrum, including the humanities and social sciences.

Courses in the Department of Economics and Business are planned to acquaint the student with basic analytic tools of business; to develop competence in some functional area that will open the door to the first job; or to provide the background for graduate work in business. Graduate education is doubtless the best in-depth preparation for business, and the able student is encouraged to plan for graduate school.

Serious attention is given to the ethical and spiritual concerns of the business community.

### REQUIREMENTS FOR A MAJOR

Economics 200, 201, 251, 252, 302, 315, 320, 414.

Four areas of concentration are offered. These are: Accounting, Administration and Management, General Business, and Mathematics-Economics.

I. *Accounting:* Economics 253, 325, 326, either 306 or 314.

II. *Administration and Business:* Economics 316, 405, 406, 415; recommended electives are 306, 313, 314, 407; Math. 110, 125.

III. *General Business:* Economics 311, 314, 402;

electives from three other departmental areas. Electives recommended for those anticipating graduate study are Economics 306, 316, Mathematics 110, 125.

### IV. B.S. Program in Mathematics-Economics:

A program has been set up with the Mathematics Department to provide a joint major leading to the B.S. degree. This major is designed to provide a basis for graduate work in economics, econometrics, business administration or computer science. It will also provide an adequate base for entering such professions as actuarial work or data processing. Students desiring to major in this program should be advised by the program co-ordinator (presently a member of the Mathematics faculty).

### Requirements for the major:

Mathematics: 125, 126, 127, 225, 226, 227, 300, 402, 461, 462.

Economics: 200, 201, 251, 252, 407, 313 or 320, 402 or 414.

Engineering: 310.

A study, either in a seminar or independent study context, of a significant area of application of mathematics to economics (5 credits).

Mathematics (Economics-Business), a one-quarter internship.

### Courses

200 PRINCIPLES OF ECONOMICS (MACRO) (5)

A foundation for all courses in economics and business. The capitalistic system, income distribution, business organization, the role of government in economic life, labor organization, national income and debt, business cycles, fiscal policy and money and banking.

201 PRINCIPLES OF ECONOMICS (MICRO) (5)

A continuation of Economics 200. Theory of price, investment and risk, dynamics of demand, competition and international trade; selected problems in agriculture, business regulation, distribution and taxation.

214 PRINCIPLES OF LIFE INSURANCE (3)

Personal and business uses of life insurance; answers to common questions about life insurance programs. For general or professional credit.

215 PROPERTY AND LIABILITY INSURANCE (3)

Risk management; basic insurance principles; automobile liability and physical damage insurance; no-fault plans; insurance for home-owners and tenants; rating; underwriting; presenting a claim. A non-technical course that is consumer-oriented.

218 REAL ESTATE (3) Not offered 1972-73

A practical course surveying kinds of deeds and conveyances, mortgages, liens, rentals, appraisals and other real-estate transactions and the law governing them.

251, 252 PRINCIPLES OF ACCOUNTING (5) (5)

Economics 251 prerequisite to 252. Fundamentals of accounting, including the analysis of the objectives of operation and of financial statements. Second quarter, the voucher system, accounting for payrolls and taxes, partnerships and corporations.

253 INTERMEDIATE ACCOUNTING (5)

Prerequisite: Economics 252. Review of basic reports and procedures involved in compilation of business data; accounting problems relating to valuation and presentation of property, liability and proprietorships items; measurements of profit and loss.

300 FAMILY ECONOMIC AND CONSUMER PROBLEMS (5)

(See Home Economics 300)

302 CORPORATE ORGANIZATION AND FINANCE (5)

Prerequisite: Econ. 251, 252. Problems in corporate structure and promotion, financing and financial management of business organizations.

303 QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS (5)

Prerequisite: Economics 306, or permission of instructor. An introduction to selected topics in decision theory and operations research: including, mathematical programming, applied decision theory, theory of games and inventory models, hypothesis testing and analysis of variance.

306 STATISTICS FOR ECONOMICS AND BUSINESS (5)

Prerequisite: College algebra or permission of instructor. For majors and non-majors. Introductory study of collection, presentation, examination and interpretation of statistical data. Emphasis on the role of statistics in economic and business forecasting and planning.

307 INTERNATIONAL ECONOMICS (5)

Prerequisite: Econ. 200-201 or permission of instructor. The basis for international trade, national trade policy, institutions of international trade and finance, the relation of international trade to economic development.

308 INVESTMENTS (5)

Prerequisite: Econ. 251-252 or permission of instructor. Principles of investment, including corporate securities; municipal, state and federal bonds.

310 COMPUTER PROGRAMMING IN BUSINESS SYSTEMS (5)

(See Engineering Science 310.)

311 LABOR PROBLEMS (5)

Structure, policies and operations of labor and management organizations; methods of collective bargaining and settlement of disputes; relation of government to industrial relations and social legislation; law and labor cases.

312 COMPARATIVE ECONOMIC SYSTEMS (5)

Prerequisite: Economics 200 and 201 or permission of instructor. An examination of the major economics systems, their goals and institutions; capitalism, fascism, and the different varieties of socialism. The problems involved in the different systems will be examined by reference to specific countries.

313 INTERMEDIATE MACRO-ECONOMICS (3)

Prerequisite: Econ. 200-201. Analysis of determinants of the aggregate level of employment, output and income of an economy.

314 BUSINESS LAW (5)

Law of contracts, agency, sales, real and personal property, negotiable instruments, bailments, and bankruptcy.

315 BUSINESS AND SOCIETY (5)

A study of the ethical problems and social responsibilities of business managers, the ever-changing nature of business and society, and the role of the businessman in regard to environmental constraints and environmental changes.

316 FOUNDATIONS OF BEHAVIORAL SCIENCE (5)

A study of concepts in behavioral science and their application by practicing managers or administrators. Organization; group, individual, and cultural behavior; and interrelationships to enterprise will be studied.

317 INTERMEDIATE MICRO-ECONOMICS (3)

Prerequisite: Econ. 200-201. Markets, market price and determination of price under various market structures; relation of price and cost; income and its functional distribution in capitalist society.

318 ECONOMICS OF THE PUBLIC SECTOR (5)

Prerequisite: Economics 200 and 201. The role of government in the free enterprise economy with emphasis on the problems encountered in the area of budgets, revenue and expenditure, and fiscal institutions. The interaction between the public sector and business, income, employment, prices and the allocation of resources.

320 MONEY AND BANKING (5)

Prerequisite: Econ. 200-201. Monetary theories and banking principles, with special reference to contemporary developments in money and banking in the U.S.; the Federal Reserve System and financial investment.

325 COST ACCOUNTING (5)

Prerequisite: Econ. 251, 252, 253. A study of the basic principles of cost accounting as applied to materials, labor, and manufacturers' overhead.

326 AUDITING (5)

Prerequisite: Econ. 251, 252, 253. Auditing procedures for verifying the records and reports that are used to show the financial condition and operating results of business enterprise.

368 AMERICAN ECONOMIC HISTORY (5)

(Not offered 1972-73) (See History 368.) Prerequisite: Econ. 200-201. Economic history of the United States beginning with its European antecedents and proceeding through modern times.

402 MARKETING (5)

Prerequisite: Econ. 200, 201. Survey of marketing, channels of distribution, commodity exchanges, wholesalers, retailers, department stores, mail-order houses, chain stores; modern merchandising methods.

405 ORGANIZATION BEHAVIOR (5)

Prerequisite: Senior year or permission of instructor. A study of the theoretical, methodological, and practical knowledge derived about organizational behavior. Emphasis on the application of research findings to practical problems.

406 MOTIVATION AND CONTROL IN FORMAL ORGANIZATION (5)

(Sociology 406) Extensive study of various theories of motivation focusing on the process by which goals are established and performance is measured and rewarded in organizations. Problem solving is emphasized.

407 INTRODUCTION TO ELECTRO-DATA PROCESSING (3)

An over-view of the role of the computer in business from the viewpoint of management.

414 ORGANIZATION AND MANAGEMENT THEORY (5)

Prerequisite: Senior year or permission of instructor. A study of the general administrative or management processes which create an environment for people to achieve common objectives. Emphasis placed on the nature of the management processes of principles.

415 ORGANIZATION AND MANAGEMENT THEORY (5)

Prerequisite: Econ. 414 or permission of instructor. Advanced study of management theory in formally organized enterprise, policy formulation, and systems models designed to aid the student in solving concrete organizational problems. Written and oral analysis will be required.

490 RESEARCH IN SELECTED FIELDS (1-5)

Prerequisite: Permission and at least 15 hours of upper division credit of B grade work in the department.

494 INDEPENDENT STUDY (1-5)

Prerequisite: Permission and at least 15 hours of upper division credit of "B" grade work in the department. Directed readings or other forms of study including research in fields related to student interest not covered by specific courses.

495 INTERNSHIP (5-15)

Prerequisite: Permission and at least 15 hours of upper division credit of B grade work in the department. Mathematics (Economics and Business), a one-quarter internship.

## Education

Professors: KEITH BELL, DONALD BLAIR, KENNETH FOREMAN, VIVIAN LARSON, WINIFRED LEIGHTON, EDWIN L. LYLE, Dean; WILLIAM REARICK, PAUL SCHWADA, RAYMOND WELLS

Associate Professors: ROBERT JOHNSON, DOLORES SANDERS, MARGARET WOODS

Assistant Professors: ESTHER CARLSON, CHARLES CRICKMORE, FAN GATES, MARY HAMMACK, BETTY LEECH, LARRY METCALF, EDWIN SILVA, PETER SMITH, SHARON STROBLE, DOROTHY WIEBE

Instructor: NANCY WEBB

Part-time Lecturers: RICHARD ASHTON, RONALD BATES, OLIVE GOODMAN, RUTH HANSEN, ANN JENNINGS, HARRIETT KOVACEVICH, MARGARET MCCRATH, RAYMOND MILLER, NILMAR MOLVIK, LARRY NOEL, RAYMOND VATH

### Courses

#### UNDERGRADUATE ELECTIVES

100 IMPROVEMENT IN READING (2)

Improvement of reading skills at the college level to increase speed and comprehension, improve recall of materials read, and improve ability to adjust reading speed to the requirements of the content and style of the printed page.

201 PSYCHOLOGY OF CREATIVITY (2)

(Formerly Educ. 305.) The nature of creativity; a study of creative and critical motivations which influence constructive creative behavior; the place of imagination in human affairs.

394 UNDERGRADUATE RESEARCH (1-3)

Prerequisite: Permission and fifteen upper division credits of "B" grade work in the department. Individual research on an approved problem culminating in a report written in an acceptable form; periodic conferences.

395 READINGS IN EDUCATION (1-3)

Prerequisite: Permission and fifteen upper division credits of "B"

grade work in the department. Extensive reading in an approved area culminating in a written report; periodic conferences.

#### BASIC COURSES FOR CERTIFICATION

##### All Students

20 EDUCATIONAL PROGRAMMING (0)

Self-study, programming, certification, testing. (Not taken by students enrolled in 203-205.)

203-205 FOUNDATIONS OF EDUCATION (10 total)

Educ. 203, 204, 205 taken concurrently.  
203 Psychological Foundations of Education (4)  
204 Social Foundations of Education (4)  
205 Laboratory Experience (2)

##### Elementary Teaching Emphasis

330-333 METHODS OF TEACHING IN ELEMENTARY SCHOOLS (12 total)

Prerequisites: Admission to School of Education or concurrent enrollment in Educ. 20, Mathematics 229, Educ. 203, 204, 205 or equivalent; eight upper division credits in a single teachable area; Educ. 330, 331, 332, 333, taken concurrently.

330 General Methods and Laboratory Experience (3)  
331 Reading-Language Arts Methods (4)  
332\* Mathematics Methods (3)  
333\* Social Science and Science Methods (2)

334 EARLY CHILDHOOD DEVELOPMENT (3)

A study of emerging patterns in early childhood education based on historical, psychological, and sociological data, curriculum resources and education innovations.

340 METHODS OF TEACHING ELEMENTARY SCHOOL (3-12)

Prerequisites: Educ. 203, 204, 205. Techniques learned through observation and experiences with Master Teacher and children in the public school for three quarters. (Part of the Internship design.)

341 METHODS OF TEACHING EXCEPTIONAL CHILDREN (3-12)

Prerequisites: Educ. 203, 204, 205. Techniques learned through observation and experiences with Master Teacher and children in the public school for three quarters. (Part of the Internship design.)

376 STUDENT TEACHING IN ELEMENTARY SCHOOLS (16)

Prerequisites: Educ. 330, 331, 332, 333 or equivalent; permission; senior standing; eight upper division credits in a single teachable area. Observation and actual teaching daily for one quarter, exclusive of travel and conference time. (Extra fec.)

388 PROFESSIONAL LABORATORY EXPERIENCES — ELEMENTARY LEVEL (5-8)

Permission: Dean of Education. Observation and teaching in public schools for one quarter, exclusive of travel and conference time. (Extra fec.)

390 ELEMENTARY SCHOOL SUBJECT MATTER (1-16)

Prerequisites: Educ. 203, 204, 205. Use of curriculum materials with elementary children under the direction of a Master Teacher in the public school for three quarters. (Part of the Internship design.)

396 ELEMENTARY SCHOOL INTERNSHIP (1-20)

Prerequisites: Educ. 203, 204, 205. Observation and actual teaching daily for three quarters in the public school under the direction of a Master Teacher. (Part of the Internship design.)

(\*Students in Early Childhood Education take Educ. 334 and 410 as substitutes for Educ. 332-333.)

## Secondary Teaching Emphasis

### 342 METHODS OF TEACHING IN SECONDARY SCHOOL (1-8)

Prerequisites: Educ. 203, 204, 205.

Methods of instruction learned through observations and experiences with Master Teacher and students in a public school. Three quarter sequence. (Part of Secondary Internship design—required.)

### 350-352, 356-365 METHODS OF TEACHING IN JUNIOR AND SENIOR HIGH SCHOOLS (12 total)

Prerequisites: Admission to School of Education or concurrent enrollment in Educ. 20, Educ. 203, 204, 205 or equivalent; nine upper division credits in a single teachable area; Educ. 350, 351, 352 taken concurrently.

- 350 General Methods (3)
- 351 Learning Activities and Materials (3)
- 352 Laboratory Experience (3)
- 356-365 Teaching Secondary School Subjects (3)

### 356-365 TEACHING SECONDARY SCHOOL SUBJECTS (3 each)

Prerequisites: Educ. 203, 204, 205 or equivalent and nine upper division credits in the teaching area or department.

Taught by specialists in areas in which SPC prepares teachers; objectives, scope and sequence of curriculum, motivational activities and procedures, evaluation, instructional materials and resources, observations and demonstrations.

356 Teaching Secondary School Speech (See Speech 410)

357 Teaching Secondary Mathematics

358 Teaching Secondary Art (See Art 347)

359 Teaching Secondary Science

361 Teaching Secondary School English (See English 490)

362 Teaching Secondary Home Economics

(See Home Economics 400)

363 Teaching Junior and Senior High School Music

(See Music 343)

364 Teaching Secondary Social Studies

365 Teaching Secondary Foreign Language

(See French, German, and Spanish 365)

### 380 STUDENT TEACHING IN JUNIOR HIGH SCHOOL (16)

Prerequisites: Educ. 350, 351, 352, and Special Methods; senior standing; permission; twelve upper division credits in major. Observation and actual teaching daily for one quarter in public schools. Constitutes a full academic load. (Extra fee.)

### 386 STUDENT TEACHING IN SENIOR HIGH SCHOOL (16)

Prerequisites: Educ. 350, 351, 352, and Special Methods; senior standing; permission; twelve upper division credits in major. Observation and actual teaching daily for one quarter in public schools. Constitutes a full academic load. (Extra fee.)

### 389 PROFESSIONAL LABORATORY EXPERIENCES — JUNIOR OR SENIOR HIGH (5-8)

Permission: Dean of Education

Observation and teaching in public schools for one quarter, exclusive of travel and conference time. (Extra fee.)

### 391 SECONDARY SCHOOL CURRICULUM (1-10)

Prerequisites: Educ. 203, 204, 205.

Development and use of curriculum materials in a public school under the direction of a Master Teacher. (Part of the Secondary Internship design—Optional.)

### 397 SECONDARY INTERNSHIP (1-20)

Prerequisites: Educ. 203, 204, 205.

Daily observation and teaching in a public school under the direction of a Master Teacher. Three quarter sequence. (Part of the Secondary Internship design—Required.)

## ELECTIVE AND ADVANCED STUDY COURSES

### 401 PSYCHOLOGY OF CREATIVITY (2)

(See Educ. 201.) Students enrolled at the 401 level complete independent study project in this course.

### 406 MENTAL HYGIENE (3) 1973-74

Personal, classroom, school and home-school influences in

promoting sound mental health in the classroom.

### 410 KINDERGARTEN METHODS (3)

Observation, participation, reading, and discussion dealing with education and guidance of the kindergarten child.

### 413 MEASUREMENT AND EVALUATION (3)

The use of standardized and teacher made measuring instruments in a program of evaluation based on pupil growth.

### 414 EDUCATIONAL STATISTICS (5)

Descriptive statistics for teachers and other school service personnel. Offers an acquaintance with statistical inference for understanding educational research literature and design of research studies where statistics are essential.

### 415 PRINCIPLES OF GUIDANCE (3)

Prerequisite: 10 hours of psychology or permission. (Formerly Educ. 492.)

Principles, practices and techniques of guidance. For experienced school personnel and teachers.

### 422 MORAL AND SPIRITUAL VALUES IN EDUCATION (3)

The role of the church, the home, the school and promising practices in teaching moral and spiritual values in public schools.

### 425-436 IMPROVEMENT OF TEACHING COURSES (3 each)

Offered on rotating cycle. Open to experienced teachers for the improvement of teaching and experience with new techniques in teaching.

425 Improving Teaching of Social Studies

427 Improving Teaching of Science

429 Improving Teaching of Reading

431 Improving Teaching of Language Arts

432 Improving Teaching of Elementary School Mathematics

433 Improving Teaching Through Audio-Visual Aids

436 Improving Teaching of Geography

### 438 COUNSELING, THEORY AND PRACTICE (5)

(See Psychology 438.)

### 440 CREATIVITY IN TEACHING (3)

(Formerly Educ. 320.) Prerequisite: Educ. 401.

Practical application of promising practices for humanizing education. Examination of thinking processes which tend to maximize learning.

### 441 CREATIVE DRAMATICS FOR TEACHERS OF NURSERY SCHOOL, CHURCH SCHOOL AND KINDERGARTEN (2)

(Formerly Educ. 456.)

The development of and demonstration of guidelines and techniques for rhythmic and dramatic activity. Story dramatization for the purpose of developing skills in verbal and non-verbal communication.

### 442 IMAGINATION AND LITERATURE FOR TEACHERS IN INTERMEDIATE GRADES AND JUNIOR HIGH SCHOOL (3)

(Formerly Educ. 458.)

Imagination and creativity as they influence readers in middle and secondary schools in developing a higher degree of appreciation for what they read, and insight into values inherent in literature with their relevance to humanity through poetry and story dramatization.

### 444 PSYCHOLOGY OF EXCEPTIONAL CHILDREN (3)

(Psychology 444.)

Behavior patterns of exceptional children such as mentally retarded, physically handicapped and superior children.

### 445 THE GIFTED CHILD (3)

Identifying the gifted child, evaluating plans to meet his needs and developing techniques to meet his needs in the classroom.

### 447 MEASUREMENTS IN PSYCHOLOGY (5)

1972-73, Sum. 73

(See Psychology 447.)

### 450-470 WORKSHOPS

450 Elementary School Music (See Music 450)

457 Orton-Gillingham Methods for Specific Language Disability

(8) One may not apply more than 10 credits in directed

teaching in reading and arithmetic centers toward the standard certificate program.

459 Elementary Art (See Art 446)

### 460 Advanced Language Disability (2-6)

Prerequisite: One year of experience preceded by Educ. 457 or Educ. 482 and 483.

### 468 Playground Activities (See Physical Education 468)

### 471 EARLY CHILDHOOD EDUCATION: LEARNING IS CHILD'S PLAY (2)

Study and implementation of programs based on principles of freedom, fun, and responsibility. Teachers have the privilege of learning with young children in open classrooms designed by teachers.

### 472 CREATIVE EDUCATION: THE PROCESS OF BECOMING HUMANE (2)

An action program designed for the enhancement of creative potentials of participants with emphasis on developing awareness and exercising imagination. Specific objectives designed to educate for humaneness in a rapidly changing world focus on developing a self-renewal program for children as well as adults.

### 474 ADVANCED CREATIVE EDUCATION: EDUCATING FOR HUMANENESS (2)

A study of action research programs which encourage constructive creative expression of meaningful learning and which can be used with success in the classroom. Observation of and/or work with children are included in the program.

### 475 FUNCTIONAL SUPERVISION IN PUBLIC SCHOOL (3) 1973-74, Sum. 73

Improving instruction through functional leadership. Specialization on either elementary or secondary level.

### 477 WORKSHOP IN REMEDIAL READING TECHNIQUES (3)

Prerequisite: Permission. Taken concurrently with Educ. 487. Clinical procedures in diagnosing and correcting pupil reading difficulties.

### 480 WORKSHOP IN REMEDIAL ARITHMETIC TECHNIQUES (3)

Prerequisite: Permission. Taken concurrently with Educ. 489. Clinical procedures in diagnosing and teaching pupils with arithmetic difficulties.

### 482 WORKSHOP IN LANGUAGE DISABILITY (3)

Prerequisite: Permission. Taken concurrently with Educ. 483. Clinical procedures in diagnosing and teaching pupils with language disabilities.

### 483 DIRECTED TEACHING, LANGUAGE DISABILITY (5)

Prerequisite: Teaching experience, fifth year status, concurrent registration in Educ. 482.

One may not apply more than 10 credits in directed teaching in summer "center" programs toward fifth-year certification or more than 5 toward the M.Ed.

### 486 STUDENT TEACHING, ADVANCED COURSE (5-8)

Prerequisite: Permission.

Advanced teaching techniques, involving student teaching in public schools.

### 487 DIRECTED TEACHING, READING CENTER (5)

Prerequisite: Teaching experience, fifth year status, concurrent registration in Educ. 477.

One may not apply more than 10 credits in directed teaching in summer "center" programs including 5 credits in Educ. 457 toward the standard certificate or more than 5 toward the M.Ed.

### 489 DIRECTED TEACHING, ARITHMETIC CENTER (5)

Prerequisite: Teaching experience, fifth year status, concurrent registration in Educ. 480.

One may not apply more than 10 credits in directed teaching in summer "center" programs including 5 credits in Educ. 457 toward the Standard Certificate or more than 5 toward the M.Ed.

### 491 MALADJUSTED CHILD (3) 1972-73

The goals of the maladjusted child's behavior and their relationship to the social context of the family, school and community.

### 493 SCHOOL PUBLIC RELATIONS (3) 1973-74, Sum. 74

Policies, organization, personnel, techniques and procedures of public relations.

### 494 EDUCATIONAL AND OCCUPATIONAL INFORMATION (3) 1973-74

Materials available regarding occupations; interpretations of present trends; value and usefulness for high school and college students.

### 497 GUIDANCE IN ELEMENTARY SCHOOL (3) 1973-74

A study of the application of principles of guidance at the elementary level. Emphasis is upon the functioning of the guidance worker in meeting children's needs.

### 498 DIRECTED STUDY AND CONFERENCE (Credit variable)

Prerequisite: Permission

Independent study of approved topics with periodic conferences.

### 499 STUDIES IN EDUCATION (Credit variable)

A lecture-discussion course for experienced teachers and administrators. Areas to be studied and amount of credit to be determined. The following sections have been offered since last issue of the catalog: Administrative Theory-Issues and Dilemmas; Children, Books, and Values; Community Education; Contemporary Elementary Science Curriculum.

## COURSES FOR GRADUATE DEGREE STUDENTS

### (Graduate Non-Degree Students by Permission Only)

### 501 INTRODUCTION TO GRADUATE RESEARCH (3)

Research problems, methods of research, design, bibliographical techniques, methods of reporting results.

### 505 SEMINAR IN CREATIVE EDUCATION (3)

Prerequisite: Educ. 201(401) or permission.

An examination of various theories of creativity regarding aesthetic and scientific experience in order to form a basis on which research in creative education can proceed.

### 507 EDUCATION OF THE YOUNG CHILD (3)

The influence of parent-child relationships on the young child and responsibilities for guidance in the home, with emphasis on the application of educational theory and basic concepts and principles of child development. Field trips and observations supplement lectures.

### 520 COMPARATIVE EDUCATION (3) 1972-73

Comparison of educational philosophy and systems of United States and foreign countries.

### 525 SEMINAR IN THE PHILOSOPHY OF EDUCATION (3)

Critical examination of selected readings in educational philosophy to discover the nature and meaning of philosophy and its relevance to the central problems of education.

### 526 HISTORY OF EDUCATION (3)

Examination of selected educators and educational movements in historical perspective.

### 527 HISTORY OF AMERICAN EDUCATION (3) 1973-74

An examination of historical influences on the American educational system(s). Emphasis placed on important educators and their responses to educational challenges.

### 530 CURRICULUM SEMINAR (3)

Curriculum development; theoretical, social, scientific bases; nature of curricula; problems in development.

### 532 SEMINAR IN EDUCATIONAL RESEARCH (3)

Prerequisite: Educ. 501.

Intensive study of an educational problem identified in Education 501, Introduction to Graduate Research. Culmination of the study prepares the M.Ed. candidate for the oral examination.

### 535 EDUCATIONAL TECHNOLOGY AND MEDIA FOR INSTRUCTION (3)

An examination of current technological advances in education and the use of new media from the philosophical, psychological and theoretical points of view. Multi-media approaches, programmed instruction, systems analysis, individualized instruction, automation of instruction, technological advances in equipment and administration of new media are considered in relation to the instructional processes.

540 **CURRENT EDUCATIONAL PROBLEMS (3)**  
Consideration of selected issues and challenges facing contemporary American education.

550 **ADVANCED EDUCATIONAL PSYCHOLOGY (3)**  
(Formerly Educ. 490.)  
Principles and research in human learning and their implications for curriculum and instruction.

558 **ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES (3) 1972-73**  
The organization and administration of guidance services in the public school system with emphasis placed on types of organizations, use of records, in-service training of workers, evaluation and roles of various staff members.

561 **GROUP PROCESSES IN GUIDANCE AND COUNSELING (5) 1973-74, Sum.74**

A study of group dynamics and group processes used by teachers and counselors to help students in groups with educational planning, career development, and interpersonal relations. Theories and practices employed in several approaches to multiple counseling.

563 **FAMILY COUNSELING (3) 1973-74**  
Analysis of family structures and interactions with implications for counseling. The application of counseling techniques to family groups.

565 **INDIVIDUAL TESTING (WECHSLER) (3) 1972-73**  
Prerequisite: Permission of instructor.  
Administering, scoring, interpretation and diagnostic use of the Wechsler Intelligence Scales.

568 **SEMINAR IN GUIDING STUDENT TEACHERS (3)**  
Prerequisite: Permission and concurrent supervision of student teacher.  
Individual and group study of problems associated with improving the supervision of student teachers.

575 **PUBLIC SCHOOL LAW (3) 1972-73, Sum. 73**  
Federal and State constitutional bases of school law. Legal design and structural pattern of Public Education and its regulatory effect on the School Board, citizens, teachers and pupils.

580 **EDUCATIONAL ADMINISTRATION (3) 1972-73, Sum. 73**  
Background, structure, methods, and problems of school organization.

581 **THE PRINCIPALSHIP (3) 1972-73, Sum. 74**  
Function and phases of administration; role of the teacher and administrator in modern elementary and secondary school organization.

584 **PUBLIC SCHOOL FINANCE (3) 1973-74, Sum. 74**  
Principles of finance, sources of revenue, distribution of monies, budget financial accounting, reporting; practices in Washington.

588, 589, 590 **PRACTICUM (2) (2) (2)**  
Supervised experience in guidance and administration. Permission must be secured by August 1.

591 **MASTER'S RESEARCH PROJECT (3)**  
Prerequisite: Permission of graduate adviser.  
Research for the non-thesis master's program. Periodic reports to major adviser.

595 **RESEARCH (1-3)**  
Prerequisite: Permission of graduate adviser.  
Individual research on subject designated at time of registration.

596 **READINGS IN EDUCATION (1-3)**  
Prerequisite: Permission and 15 graduate level credits of "B" grade work in the department.  
Extensive reading in an approved area culminating in a written report; periodic conferences.

597, 598, 599 **THESIS (3) (3) (3)**  
Prerequisite: Permission of thesis adviser.  
Demonstrated acceptable progress on thesis study; periodic reports to major adviser.

## Engineering Science

Associate Professors: JAMES H. CRIGHTON (*On leave*),  
ROBERT C. HUGHSON, *Acting Chairman*  
Assistant Professor: DONALD M. ANDERSON (*On leave*)  
Part-time Instructor: DAVID BAERTSCHY

An engineer applies the principles of science, so as to develop the tools of civilization. As civilization progresses, the engineer's products become more complex. Today the engineer is required to have both a deeper understanding and wider versatility than his predecessors. His techniques must continually change in order to keep pace with new developments. The engineering science program is designed to provide a thorough understanding in the applied science, as well as the liberal arts background so essential for effective communication with society.

The engineering student may complete a four-year program leading to the B.S. degree in Engineering Science, or he may choose to transfer to an engineering school after two years of pre-engineering studies. The Engineering Science program is supported by an emphasis in Mathematics, Physics, or Engineering and Business Systems.

**Entrance Requirements.** In addition to meeting all the general SPC admission requirements, the high-school graduate entering the engineering program should present a high-school record showing plane geometry, two years of algebra, trigonometry and solid geometry. One year each of chemistry and physics is helpful, but not a requirement. A grade-point average of 2.50 or better in all academic subjects is recommended.

### 1. Requirements for Major in Engineering Science

The following course work is required for all Engineering Science majors: Mathematics through 227; ten credits of General Chemistry; fifteen credits of General Physics; and Engineering Science 101, 293, 327, and 391. In addition to the above, one of the following emphases must be satisfied by completing the minimum course work listed:

**Emphasis in Physics.** Mathematics 325 and 326; Engineering Science 326 and 328; Physics 204 and three terms of advanced physics laboratory (Physics 311); plus at least fifteen hours of upper division Physics or Engineering Science courses chosen to meet departmental approval.

**Emphasis in Mathematics.** Mathematics 325 and 326; Physics 204; Engineering Science 213, plus at least twenty-five hours of upper division Mathematics or Engineering Science courses chosen to meet departmental approval.

**Emphasis in Engineering and Business Systems.** Engineering Science 310 or 324; Economics and Business 200, 201, 251, and 252; plus at least twenty hours of upper division Economics and Business or Engineering Science courses chosen to meet departmental approval.

### 2. Pre-Professional Program

A student who plans to obtain a B.S. degree from an engineering school in one of the professional engineering disciplines (e.g., civil, electrical or mechanical) may complete two years of pre-engineering studies at SPC. He should make certain that he meets the requirements of the school to which he intends to transfer.

### Suggested First-Year Engineering Curriculum

AUTUMN		WINTER	
Math 110 or 125.....	5	Math 125 or 126.....	5
Chemistry 111.....	5	Chemistry 112.....	5
Engineering 101.....	5	Liberal Arts Req'mt. ....	5
Phys. Ed. Activity.....	1	Phys. Ed. Activity.....	1
	16		16
SPRING			
Math 126 or 127.....	5		
English Requirement .....	5		
Liberal Arts Req'mt. ....	5		
Phys. Ed. Activity.....	1		
	16		

The curriculum for second-year engineering students will be arranged on an individual basis, depending on the specific major field (mechanical,

aeronautical, civil, chemical or electrical engineering).

### Courses

- 101 **GRAPHICS AND DESCRIPTIVE GEOMETRY (5)**  
Reading, interpreting, and producing engineering drawings. Drawing board solution for problems of geometrical nature. An introduction to the engineering profession is included for educational planning purposes.
- 213 **COMPUTOR PROGRAMMING IN PHYSICAL AND BEHAVIORAL SCIENCES (3)**  
Fundamentals of digital computer programming for engineers and scientists, including instruction in the FORTRAN computer language.
- 293 **INTRODUCTION TO MECHANICS OF SOLIDS (5)**  
Prerequisite: Math. 127  
Fundamental principles of statics applied to frames and trusses. Elementary development of elastic and plastic behavior of solids, including applications to structural beams and columns for the determination of stress, moment, and deformation.
- 310 **COMPUTER PROGRAMMING IN BUSINESS SYSTEMS (5)**  
Fundamentals of business computing systems including instruction in the COBOL computer language.
- 315 **ASSEMBLY LANGUAGE (3)**  
Computer programming in machine and assembly languages on small computer systems. Discussion of binary and octal numbering systems as used by the computer. Lectures and laboratory.
- 324 **FUNDAMENTALS OF DIGITAL COMPUTERS (3)**  
Introduction to the principles, logic and systems of digital computers, including basic logic circuits and computer components. No prior knowledge of electronics is required.
- 326 **ELECTRIC CIRCUITS (5)**  
Prerequisites: Physics 103 or 203, Math. 127.  
Direct current and alternating current circuit theory. Both steady state and transient solutions are covered by several techniques including Laplace Transforms.
- 327-328 **ELECTRONIC INSTRUMENTS AND ELECTRONICS (5) (5)**  
Prerequisite: Engr. Sci. 326 or permission.  
Instrument theory and application. Vacuum tube and solid state circuits, with special emphasis on applications to instrumentation. Elementary digital techniques are discussed. Three lectures and two two-hour laboratory periods per week.
- 371 **INTRODUCTION TO HEAT TRANSFER (5)**  
Prerequisites: Math. 226 and Physics 103 or 203.  
Fundamentals of heat transfer by conduction, convection, and radiation, including heat flow across fluid boundary layers. Applications to simple heat exchange configurations.
- 391 **DYNAMICS (5)**  
Prerequisites: Engr. Sci. 293 and Math. 127.  
(See Physics 391.)
- 393 **THEORY OF ELASTICITY (5)**  
Prerequisites: Engr. Sci. 293 and Math. 227 or permission.  
Fundamentals of continuum mechanics using cartesian tensors, with applications in linear elasticity.
- 421 **ELECTRONIC ANALOG SIMULATION (5)**  
Prerequisite: Engr. Sci. 328 or permission.  
Theory and application of electronic analog computers to engineering design and analysis. Lectures and laboratory projects.
- 442 **FLUID MECHANICS (5)**  
Prerequisites: Engr. Sci. 391 and Math. 226.  
Mechanics of incompressible fluids. Continuity, energy and momentum equations. Dynamics similitude. Introduction to potential flow.
- 451 **SPECIAL TOPICS IN ENGINEERING (5)**  
Prerequisite: Departmental permission.  
Seminar on subjects of special interest in Engineering.

- 454 INDEPENDENT STUDY IN ENGINEERING (5)  
*Prerequisite: Departmental permission.*  
 Independent study under direction of a faculty member. Advanced problems in a topic for which related upper division courses have been completed.
- 459 ENGINEERING APPLICATIONS IN INDUSTRY (3 to 10)  
*Prerequisite: Departmental permission.*  
 Up to ten credits may be earned by pre-arrangement for coordinated field experience in engineering employment in industry. A coordinating committee, including an appropriate industrial engineering representative, plans the program with the student and evaluates the learning experience.

## English

*Professors:* EVAN K. GIBSON, *Chairman,*  
 DONALD McNICHOLS  
*Associate Professors:* LEON ARKSEY, BONNIE L. HEINTZ  
*Assistant Professors:* JOYCE ERICKSON, FAN GATES,  
 JEAN HANAWALT  
*Instructors:* PEARL McELHERON,  
 JAMES PLETT (*on leave*)  
*Part-time Lecturer:* SANDRA McCREERY

The Department of English attempts to acquaint the student with the literary and linguistic traditions of Western culture, to promote humanistic values from the perspective of Christian faith and tradition, to improve reading skills through increased perception and sensitivity, to give practice in expository, critical and creative writing and to furnish a sound undergraduate major as a basis for advanced work on the graduate level.

### REQUIREMENTS FOR MAJOR

Students majoring in English must earn forty-five credits in courses numbered 200 or above. A minimum of twenty-three credits must be upper division.

The department offers two emphases each of which will meet the requirements for the major.

For the student interested in writing:

Courses in writing selected from 201, 301, 302, 303, 315, 400, 401 and Journalism	18
201, 202, 203	
English 231 or 270	5
English 310	5

70/ Courses: Engineering Science / English

English 445 or 446	5
Upper division courses in British or American literature since 1660	5
Other courses within the department	7
	—
	45 credits

For the student interested primarily in literature:

One course in writing numbered 200 or above	3-5
American literature selected from 230, 231, 331, 332, 334, 431, 432	5
Early British literature selected from 250, 340, 344, 356, 444, 455	5
Later British literature (since 1660) selected from 260, 270, 357, 366, 367, 457, 458, 466, 467, 472, 473	10
English 310	5
English 445 or 446	5
Genre courses selected from 322, 323, 324, 325	5
Other courses within the department	5-7
	—
	45 credits

Required for the secondary teaching certificate in English:  
 English 490 (does not count on the major).

Recommended for those planning to do graduate work in English:  
 English 315, 415, 444, 455.

Registration in courses numbered 300 or above requires at least junior standing or permission from the Department Chairman.

### LOWER DIVISION

#### The First Year English Program

122 PROSE: STUDY AND PRACTICE (5)	
Special attention is given to developing the student's own writing skill.	
123 DRAMA (5)	
The structure and conventions of the play as a literary form.	
124 POETRY (5)	
Technique and content of poetic expression.	
125 FICTION: SHORT STORY AND NOVELETTE (5)	
Theme and structure of narrative forms.	

#### Second Year Courses

201 EFFECTIVE WRITING (5)	
Development of a clear prose style.	
225 GREAT THEMES IN LITERATURE (3)	
A study of human values in literature.	
230, 231 MAJOR AMERICAN WRITERS (5) (5)	
Early nineteenth century to the present.	

- 250, 260, 270 MAJOR BRITISH WRITERS (5) (5) (5)  
 Chaucer to the present.

### UPPER DIVISION

#### Language and Writing Courses

- 301 CRITICAL WRITING (5)  
 Research oriented, emphasizing the task of the scholar and the philosophy of composition.
- 302, 303 WORKSHOP IN CREATIVE WRITING (3) (3)  
 Practice in imaginative writing adapted to the interests of the individual.
- 310 THE STUDY OF LANGUAGE (5)  
 History and linguistics.
- 312 GRAMMAR AND USAGE (2)  
 A review of standard English; adapted to the needs of those preparing to write professionally or to teach in the language arts.
- 315 INDEPENDENT STUDY SEMINAR (5)  
 Research methods and writing upon an approved literary project.
- 400, 401 PROFESSIONAL WRITING (3) (3)  
 A study of the job market for writers and the specialized problems of writing in the various professional areas.

#### Genre Courses

- 322 THE FORMS OF POETRY (5)  
 A study of patterns and techniques.
- 323 THE FORMS OF DRAMA (5)  
 A study of types and special problems of dramatic literature.
- 324 EARLY ENGLISH NOVEL (5)  
 From the beginnings to the Romantic Period.
- 325 LATER ENGLISH NOVEL (5)  
 From the Victorians to the early twentieth century.
- 329 SCIENCE FICTION (3)  
 (See P.S. 410 for description.)

#### Period Courses

- 331, 332 AMERICAN LITERATURE (5) (5)  
 Beginnings to 1900.
- 334 LITERATURE OF BLACK AMERICA (3)  
 A critical examination of writing by black Americans with emphasis on the twentieth century. A limited consideration of white perception of the black experience.
- 340 ANGLO-SAXON LITERATURE (5)  
 A study of Anglo-Saxon language and literature from the eighth through eleventh centuries.
- 344 MIDDLE ENGLISH LITERATURE (3)  
 Exclusive of Chaucer.
- 356 THE ENGLISH RENAISSANCE (5)  
 Literature of the sixteenth and seventeenth centuries to 1660.
- 357 THE EIGHTEENTH CENTURY (5)  
 English literature from 1660 to 1800.
- 366 THE ROMANTIC PERIOD (5)  
 Early nineteenth century prose and poetry.
- 367 THE VICTORIAN PERIOD (5)  
 Later nineteenth century prose and poetry.

#### Literature in Translation

- 380 MYTHOLOGY (3)  
 A study of the major Greek, Latin, and Celtic myths significant to British literature.

- 381 GREEK LITERATURE (3)  
 Prose and poetry of ancient Greece.
- 382 LATIN LITERATURE (3)  
 Prose and poetry of ancient Rome.
- 383 LITERATURE OF THE WESTERN WORLD (5)  
 Masterpieces which have influenced Western civilization.
- 385 TWENTIETH CENTURY CONTINENTAL LITERATURE (5)
- 387 THE BIBLE AS LITERATURE (3)  
 Form, style and literary technique of selected portions of the Bible.

#### Individual Authors

- 431, 432 AMERICAN WRITERS\* (3) (3)
- 444 CHAUCER (5)
- 445, 446 SHAKESPEARE (5) (5)
- 455 MILTON (5)
- 457, 458 EIGHTEENTH CENTURY WRITERS\* (3) (3)
- 466, 467 NINETEENTH CENTURY WRITERS\* (3) (3)
- 472, 473 TWENTIETH CENTURY WRITERS\* (3) (3)

#### Literary Theory

- 415 THE ANALYSIS OF LITERATURE (3)  
 The major critics and schools of literary criticism.
- 490 SENIOR TEACHING SEMINAR (3)

### JOURNALISM

- 201, 202, 203 NEWSWRITING (2) (2) (2)  
 Introduction to modern news writing. Structure of news and feature stories. Reasonable proficiency in the use of typewriter required.
- 301, 302, 303 NEWSPAPER PRODUCTION (2) (2) (2)  
 Reporting, editing, proofreading; Laboratory for the Falcon, SPC weekly newspaper.
- 305 YEARBOOK AND MAGAZINE PRODUCTION (2)

## Foreign Languages

(Classical and Modern)

### Classical Languages

*Professor:* WINIFRED E. WETER, *Chairman*  
*Assistant Professor:* WAYNE McCOWN

The languages, literature, and culture of the Greeks and Romans are foundation stones of Western culture. The Department of Classical Languages through courses in the languages and general courses taught in English hopes to contribute to the student's

\*Each course usually offered in alternate years. The writers studied will be listed in the class schedule.

Courses: English / Foreign Languages—Classical /71

appreciation of our past. The student of Biblical Literature will find that the study of Greek opens new horizons of understanding the New Testament and provides a basic tool for studies in depth in the Biblical field. The elementary year is based on Classical Greek to provide the best foundation for the study of New Testament Greek and to enable the student to explore other Greek literature. The student of Modern Languages also will find some knowledge of the ancient languages helpful to his understanding of the language he is studying.

### REQUIREMENTS FOR A MAJOR

Majors are offered in Greek and Latin. Requirements are forty-five credits in the chosen language and History 210 or the equivalent. No more than three credits in courses labeled CLASSICS will be allowed toward a major. A student interested in a major combining Greek and/or Latin and/or a modern language should consult the departments involved.

#### Courses

#### CLASSICS

The following courses are service courses taught in English and open to any upper division student. Not more than one, with departmental permission, may be counted toward a language major.

- 350 GREEK CIVILIZATION (3)  
(See History 308.)  
A survey of ancient Greek culture, art, literature beginning with the Mycenaean Age, with emphasis on the fifth century B.C. and stressing the contributions of the Greeks to contemporary life.
- 351 ROMAN CIVILIZATION (3) *Not offered 1972-73*  
(See History 309.)  
Special emphasis on the period from 100 B.C.-100 A.D. and the Roman contribution to contemporary life.
- 381 GREEK LITERATURE (3)  
(See English 381.)  
A survey of classical Greek literature with special emphasis on Homer and the Drama.
- 382 LATIN LITERATURE (3) *Not offered 1972-73*  
(See English 382.)  
A survey of classical Latin literature with special attention to the period between 100 B.C.-14 A.D.

#### GREEK

- 101-102, 203 ELEMENTARY GREEK (5) (5) (5)  
*No credit for 101 until 102 is completed.*  
Grammar, composition and selections from Xenophon.
- 204 COMPOSITION AND SYNTAX (3)  
*Prerequisite: Greek 203.*

- Thorough review of grammar, with practice in writing Greek.
- 305 HOMER (3)  
*Prerequisite: Greek 203.*  
Selections from the *Iliad*.
- 306 PLATO (3)  
*Prerequisite: Greek 203.*  
The *Apology*, *Crito* and selections from the *Phaedo*.
- 207, 308, 309 NEW TESTAMENT GREEK (2) (2) (2)  
*Prerequisite: Greek 203 or equivalent.*  
Reading of one Gospel and selections from the *Acts*.
- 334, 335, 336 GREEK DRAMA (3) (3) (3)  
*Not offered 1972-73*  
*Prerequisite: Greek 305 and 306.*  
One play each of Aeschylus, Sophocles, Euripides. Readings and lectures on the history of Greek drama.
- 401, 402, 403 ADVANCED NEW TESTAMENT GREEK (2) (2) (2) *Not offered 1972-73*  
*Prerequisite: Greek 309 or instructor's permission.*  
Reading and exegesis of selected Epistles.
- 425, 426 READING IN GREEK PROSE (3) (3) (3)  
*Offered on demand*  
*Prerequisite: Greek 306.*  
Selections from Herodotus, Plato and/or the Attic Orators.
- 427 LYRIC POETRY (3) *Offered on demand*  
*Prerequisite: Greek 305.*

#### LATIN

Courses in Latin at all levels are available on an independent study basis. Students interested in either beginning or continuing the study of Latin should consult the Department Chairman at their earliest convenience.

#### Courses

- 101-102, 103 ELEMENTARY LATIN (5) (5) (5)  
*No credit for 101 until 102 is completed.*

#### Offered on Demand

- 204, 205, 206  
304, 305, 306 READINGS IN LATIN  
401, 402, 403 LITERATURE (3-5 per quarter)

A reading list will be provided from which material to suit the competence and interests of the student will be selected. Included are the authors with whom a prospective teacher of Latin should be acquainted.

### Modern Foreign Languages

Associate Professors: GUSTAVE BREITENBACH,  
DOLORES L. SANDERS  
Assistant Professors: JANE BLOCK, FRANK E.  
LEDDUSIRE, *Chairman*; MICHAEL MACDONALD  
Instructor: KATHY NELSON

The Department of Modern Foreign Languages offers programs leading to the Bachelor of Arts Degree with four possible majors: French, German, Spanish and Inter-languages. Courses are also offered in Russian. These programs are designed to meet the needs of students who desire a reasonable competency in a modern foreign language, an expanded understanding of the appropriate cultures, and an acquaintance with modern techniques of teaching foreign language.

The emphasis at Seattle Pacific is placed on contemporary language study, foreign enrichment, and cultural involvement. All courses, beginning at the elementary level, are conducted as far as possible in the target language. Use of modern language laboratory facilities is required of all students in elementary and intermediate courses.

Students with two years of language study in high school, wishing further study, will normally enroll in 201. Those with more or less than two years should consult the department for placement. Students continuing study of a language begun in high school may be asked to take a placement test.

In no language will credit for 101 be given until 102 (105 for Russian) is completed.

### REQUIREMENTS FOR A MAJOR

A major in French, Spanish, or German requires thirty credit hours of upper division in the language of one's major, chosen in consultation with a department adviser. An Inter-language major requires twenty credit hours of upper division in one language and twenty credit hours of a second language (at any level). There are nine language combinations possible in the present program. A 350 course is required in at least one of the language areas.

The program of transfer students must have departmental approval. Education students planning toward certification in secondary school programs should major in one specific language.

All majors are required to take MFL 413. Recommended electives outside of the department requirements include at least one course in each of the following areas: political science, a history of the area of the language major, and a survey of

English literature.

Students seeking the teaching certificate at the secondary level must take MFL 414 and 365.

#### Courses

#### MODERN FOREIGN LANGUAGE, general

- 365 TEACHING SECONDARY SCHOOL FOREIGN LANGUAGE (3)  
Does not apply toward fulfillment of college requirement or language major. (See Educ. 365.)
- 413 EUROPEAN LANGUAGES (3)  
A study of the nature of language change, illustrated by the classification of European languages and their common histories. Diachronic studies of phonology, morphology, and syntax. Designed to relate the Indo-European language family, with emphasis on Spanish, French, German, English, Russian, and Greek.
- 414 PROBLEMS IN APPLIED LINGUISTICS (2)  
Specific problems in learning, French, Spanish, or German. Areas covered are phonology, morphology, and syntax.
- 470 FOREIGN FIELD EXPERIENCE (1-5)  
An individualized program of learning through experience abroad under collegiate supervision in study, work, or travel.  
*Prerequisite: The completion of an equivalence of course 202 in the language of the programmed area.*

#### FRENCH

- 101-102, 103 ELEMENTARY FRENCH (5) (5) (5)  
A beginning course in the four basic skills: understanding, speaking, reading, and writing. Primary emphasis is on conversation.
- 201, 202, 203 INTERMEDIATE FRENCH (5) (5) (5)  
*Prerequisite: French 103 or equivalent.*  
Courses 201 and 202 are a continuing language experience with stress on writing and speaking. Course 203 is an introduction to reading areas and the study of literature.
- 301 FRENCH CONVERSATION AND STRUCTURE (5)  
*Prerequisite: French 203 or permission of instructor.*  
A review of basic pronunciation and structural patterns. Practice in oral expression.
- 302 FRENCH STYLISTICS (5)  
*Prerequisite: French 301 or permission of instructor.*  
Readings and exercises designed to aid in the development of a concise French speaking and writing style.
- 303 A SURVEY OF FRENCH LITERATURE (5)  
*Prerequisite: French 203 or permission of instructor.*  
Readings and discussion are in French. This course is basic to all further work in French literature.
- 304 MODERN FRENCH LITERATURE (5) *Offered 1972-73*  
Reading and discussion are in French. The course includes masterpieces of modern French literature.
- 350 FRENCH CIVILIZATION (5)  
*No prerequisite for non-majors.*  
Taught in English. French majors need the equivalent of 203 level and permission of the instructor. Readings for majors are in French. A survey of French civilization from its beginning to the present. Use of films, slides, and papers.
- 401 ADVANCED FRENCH CONVERSATION (5)  
*Prerequisite: French 302.*
- 402 ADVANCED STRUCTURE OF FRENCH (5)  
*Prerequisite: French 302.*
- 415, 420, 425 INTENSIVE ORAL PRACTICE (2) (2) (2)  
*Prerequisite: French 203.*  
Concentrated drill in French conversation. Subjects for discussion will be current events, culture and civilization of France.

- 481, 482, 483 DIRECTED READINGS AND RESEARCH (1-3) (1-3) (1-3)  
Open to majors with departmental approval.

### GERMAN

- 101-102, 103 ELEMENTARY GERMAN (5) (5) (5)  
A beginning course in the four basic skills: understanding, speaking, reading, and writing. Primary emphasis is on conversation.
- 201, 202, 203 INTERMEDIATE GERMAN (5) (5) (5)  
*Prerequisite: German 103 or equivalent.*  
Courses 201 and 202 are a continuing language experience with stress on writing and speaking. Course 203 is an introduction to German reading areas and the study of literature.
- 301 GERMAN CONVERSATION AND STRUCTURE (5)  
*Prerequisite: German 203 or permission of instructor.*  
A review of basic pronunciation and structural patterns. Practice in oral expression.
- 302 GERMAN STYLISTICS (5)  
*Prerequisite: German 301 or permission of instructor.*  
Readings and exercises designed to aid in the development of a concise German speaking and writing style.
- 303 A SURVEY OF GERMAN LITERATURE (5)  
*Prerequisite: German 203 or permission of instructor.*  
Readings and discussion are in German. This course is basic to all further work in German literature.
- 304 MODERN FRENCH LITERATURE (5) Offered 1972-73  
Reading and discussion are in German. The course includes masterpieces of modern German literature. Well-known authors included will be Nietzsche, Thomas Mann, Kafka, Hesse, Brecht among others.
- 350 GERMAN CIVILIZATION (5)  
*No prerequisite for non-majors.*  
Taught in English. German majors need the equivalent of 203 level and permission of the instructor. Readings for majors are in German. A survey of German civilization from its beginning to the present.
- 401 ADVANCED GERMAN CONVERSATION (5)  
*Prerequisite: German 302.*
- 402 ADVANCED STRUCTURE OF GERMAN (5)  
*Prerequisite: German 302.*
- 415, 420, 425 INTENSIVE ORAL PRACTICE (2) (2) (2)  
*Prerequisite: German 203.*  
Concentrated drill in German conversation. Subjects for discussion will be current events, culture and civilization of Germany.
- 481, 482, 483 DIRECTED READINGS AND RESEARCH (1-3) (1-3) (1-3)  
Open to majors with departmental approval.

### RUSSIAN

- 101-105, 200 ELEMENTARY RUSSIAN (5) (5) (5)  
*Not offered 1971-72*  
A beginning course in the four basic skills: understanding, speaking, reading, and writing. Primary emphasis is on conversation. Reading areas in course 200.
- 205, 300, 305 INTERMEDIATE RUSSIAN (5) (5) (5) *Not offered 1972-73*  
*Prerequisite: Russian 200 or the equivalent.*  
A review of basic pronunciation and structural patterns. Practice in oral expression based on models by well-known authors. Opportunity for individual study in the sciences or humanities.
- 350 RUSSIAN CIVILIZATION (5)  
*No prerequisites.*  
Readings in English or Russian. Discussions in English.
- 481, 482, 483 DIRECTED READINGS AND RESEARCH (1-3) (1-3) (1-3)  
*Prerequisite: Departmental approval.*

### SPANISH

- 101-102, 103 ELEMENTARY SPANISH (5) (5) (5)  
A beginning course in the four basic skills: understanding, speaking, reading, and writing. Primary emphasis is on conversation.
- 201, 202, 203 INTERMEDIATE SPANISH (5) (5) (5)  
*Prerequisite: Spanish 103 or equivalent.*  
Courses 201 and 202 are a continuing language experience with stress on writing and speaking. Course 203 is an introduction to Spanish reading areas and the study of literature.
- 301 SPANISH CONVERSATION AND STRUCTURE (5)  
*Prerequisite: Spanish 203 or permission of instructor.*  
A review of basic pronunciation and structural patterns. Practice in oral expression.
- 302 SPANISH STYLISTICS (5)  
*Prerequisite: Spanish 301 or permission of the instructor.*  
Readings and exercises designed to aid in the development of a concise Spanish speaking and writing style.
- 303 A SURVEY OF SPANISH LITERATURE (5)  
*Prerequisite: Spanish 203 or permission of instructor.*  
Readings and discussion are in Spanish. This course is basic to all further work in Hispanic literature.
- 304 MODERN SPANISH LITERATURE (5) Offered 1972-73  
Reading and discussion are in Spanish. The course includes masterpieces of modern Spanish literature.
- 350 SPANISH CIVILIZATION (5)  
*No prerequisite for non-majors.*  
Taught in English. Spanish majors need the equivalent of 203 level and permission of the instructor. Readings for majors are in Spanish. A survey of Spanish civilization from its beginning to the present. Use of films, slides, and papers.
- 401 ADVANCED SPANISH CONVERSATION (5)  
*Prerequisite: Spanish 302.*
- 402 ADVANCED STRUCTURE OF SPANISH (5)  
*Prerequisite: Spanish 302.*
- 415, 420, 425 INTENSIVE ORAL PRACTICE (2) (2) (2)  
*Prerequisite: Spanish 203.*  
Concentrated drill in Spanish conversation. Subjects for discussion will be current events, culture and civilization of Spain.
- 481, 482, 483 DIRECTED READINGS AND RESEARCH (1-3) (1-3) (1-3)  
Open to majors with departmental approval.

### General Studies

The objective of studies in this division is to provide students with a wider range of educational opportunities than is available within a single department. The student is encouraged to exercise his personal initiative in clarifying his objectives and designing an educational program which promises to be most useful to his individual needs. Innovation in the curriculum is encouraged, particularly as courses and programs give promise of achieving the integration of knowledge.

- 460 GENERAL STUDIES (DEPT.) (3-15)  
Independent study arranged with a department on campus. (Part of the Secondary Internship design—Optional.)

### American Studies

*Professors:* CARL H. REED, CLIFFORD E. ROLOFF, ROY SWANSTROM  
*Associate Professor:* LEON ARKSEY  
*Assistant Professors:* FAN GATES, JEAN HANAWALT, RONALD B. PALMER  
*Instructors:* MICHAEL CALDWELL, ROBERT SNIDER  
*Part-time Lecturer:* LEON JONES

American Studies offers a major designed to give students a sharper perception of the American experience—its heritage, its promise, its problems, its future.

To achieve breadth, the American Studies Curriculum designates certain courses from the Art, English, History, Music, and Political Science departments as requirements; additional courses are options for electives. To achieve synthesis and to give the students a stronger sense of participation, the program offers an American Studies Seminar once a year. For first, second, and third year students, the seminar offers one credit. For seniors, the seminar requires a project reflecting the student's chief interest in the American Studies area and carries three credits. Should the student join the American Studies Program at the sophomore or junior level, five or four credits respectively from the seminar program will be required.

### REQUIREMENTS FOR A MAJOR

Art 385  
English 231, 331, 332, 334  
History 142 and 143 plus 9 hours from upper division courses listed below  
Music 380  
Political Science 100 and 441

Recommended electives include:  
Anthropology 310 and 360  
Economics 200 and 315  
History 341, 360, 361, 365, 377, 446, 449, 452, 455, 498

Political Science 350, 448  
Sociology 110, 362, 365

### Courses

101, 201, 301, 401 AMERICAN STUDIES  
101, 201, 301, 401 AMERICAN STUDIES SEMINAR  
One credit each year for freshman, sophomore, junior participation. Senior year participation requires a senior project reflecting the student's chief interest in the American Studies area and carries three credits.

### Contemporary Studies

Students and faculty interested in the contemporary issues program meet weekly for study and discussion. The basic objective of those interested in the program is to explore the contemporary pressing issues in the American society and examine the various alternatives which seem feasible.

270, 370 CONTEMPORARY ISSUES SEMINAR (2-3 per year)  
A seminar conducted on issues of current interest in politics, foreign affairs, social problems, the arts, religion and philosophy. Each quarter the seminar is organized around a theme selected by faculty and students who participate.

### Continuing Studies

ROBERT C. JOHNSON, *Director*

A pilot program has been initiated, providing greater flexibility toward designing programs through a continuous progress concept. Students who give evidence of adequate maturity, and have defined the goals they wish to attain in a degree program, are encouraged to arrange with the program director for alternatives to the General Requirements of the catalog. This arrangement might allow for differences in learning styles, field or work oriented credits, and area emphases based upon the student's academic goals. The individual program possibilities are limited only by the student's creative ability in designing an alternate degree program.

More specific details regarding the possibilities of this program may be obtained by writing or phoning:



Director of Continuing Education, Seattle Pacific College, Seattle, Washington 98119.

## General Honors

WESLEY E. LINGREN, *Director*

For a description of the General Honors Program see p. 26 in this catalog.

- 400 GENERAL HONORS SEMINAR (1-3 per year)  
*May be repeated up to a maximum of 12.*  
*Prerequisite: Restricted to members of the General Honors Program.* A seminar that meets each quarter to study and discuss issues, topics and questions which often transcend usual course boundaries and are of fundamental significance. Honors students are expected to participate in at least two out of the three seminars each year.
- 490 GENERAL HONORS PROJECT (2-5)  
*May be repeated up to a maximum of 10*  
*Prerequisite: Restricted to members of General Honors Program; requires approval of Honors director.*

## Geography

Lecturer: ANN CHRISTINA JENNINGS

- 200 INTRODUCTION TO GEOGRAPHY (5)  
Major concepts and methods in the field; analysis of selected problems and types of regions.
- 301 URBAN GEOGRAPHY (5)  
Analysis of urban land-use patterns and structure in terms of economic base, site and situation, distribution, supporting areas, and new trends in metropolitan form and arrangement. Particular emphasis on Seattle and vicinity current urban problems—sprawl, renewal, pollution and metropolitan transportation.

## History

Professors: CLIFFORD E. ROLOFF,  
ROY SWANSTROM, *Chairman*  
Assistant Professor: RONALD B. PALMER

Part-time Lecturers: RUSSELL J. ANDERSON, LEON C. JONES, HENRY T. LITTLEJOHN

In history courses we study the record of human experience. Whatever that experience can teach us about our own identity, about the nature of human successes and failures, and about man's relationship to God in years past, we learn from history. Since we have no alternative but to use the past in planning for the future, an accurate and perceptive knowledge of history is an essential part of the thinking apparatus of every educated individual.

### REQUIREMENTS FOR A MAJOR

Students majoring in history must earn forty-five credits in history, including courses 111, 112, and 210 and twenty-three upper-division credits. Courses should be well distributed between the European and American fields, and should include some work in Far Eastern, Near Eastern, or Latin American history.

The student may apply toward a history major one of the following: French 350, German 350, Russian 350, or Spanish 350. He may also apply one of the following: Political Science 442, 444, or 446.

The department also requests history majors to complete at least one basic course in each of the fields of sociology, economics, political science, and philosophy. Students planning to do graduate work in history should acquire a reading mastery of French or German or Russian. Students seeking certification for teaching with a concentration in history should consult the School of Education for specific requirements in history and related social sciences. A 2.50 average in history courses is required for departmental recommendation for history teaching on the secondary level.

### Courses

- 111 MEDIEVAL EUROPE (5)  
Political and cultural development of Western Europe from the decline of Rome to the close of the fifteenth century.
- 112 MODERN EUROPE (5)  
Continuation of 111 from the Protestant Reformation to the present.

- 142 UNITED STATES, 1783-1877 (5)  
Survey of the political, economic and cultural development of the United States from the Confederation period through the Reconstruction period.
- 143 UNITED STATES, 1877 TO THE PRESENT (5)  
Continuation of 142 from the Reconstruction Period to the present.
- 210 ANCIENT HISTORY (5)  
Survey from the earliest ancient civilization to the decline of the Roman Empire.
- 308 GREEK CIVILIZATION (CLASSICS 350) (3)  
A survey of ancient Greek culture, art, and literature beginning with the Mycenaean Age, with emphasis on the Fifth Century B.C. and stressing the contributions of the Greeks to contemporary life.
- 309 ROMAN CIVILIZATION (CLASSICS 351) (3) 1973-74  
Special emphasis on the period 100 B.C. to 100 A.D. and the Roman contribution to contemporary life.
- 316 NINETEENTH CENTURY EUROPE (5) 1973-74  
Social, political and economic history of Europe, 1815-1914. Offered alternate years.
- 319 TWENTIETH CENTURY EUROPE (5)  
Europe from World War I to the present, with special emphasis on causes of World War II.
- 329 EARLY MODERN ENGLAND (3)  
Development of England and English institutions from 1485 to 1815. Offered alternate years.
- 336 HISTORY OF INTERNATIONAL ORGANIZATIONS (5)  
(See Political Science 336.)  
Survey of the development of international organizations with emphasis on the League of Nations and the United Nations.
- 337 MODERN RUSSIA (5)  
Social and political history; special attention to the revolutionary movement and establishment of the Soviet regime. Offered alternate years.
- 339 HISTORY OF MARXISM (5)  
(See Political Science 339.)
- 340 HISTORY OF THE CHRISTIAN CHURCH (5)  
Survey of the Christian Church from Apostolic days to the twentieth century.
- 341 COLONIAL AMERICA (5)  
The colonization enterprise; special emphasis on the American Revolution and its background.
- 360 HISTORY OF THE PACIFIC NORTHWEST (3)  
The Pacific Northwest, beginning with the discovery period; emphasis on the history and government of Washington.
- 361 THE NEGRO IN AMERICAN HISTORY (3)  
History of the American Negro from his African origins to the present; folkways, outstanding personalities and contributions to American life.
- 368 ECONOMIC HISTORY OF THE UNITED STATES (5) 1973-74  
*Prerequisite: Econ. 200-201.*  
(See Econ. & Bus. 368)  
Economic growth of the United States from colonial times to the present.
- 374 LATIN AMERICA, 1492-1825 (5)  
Survey of the political, social and economic development of Latin America from Columbus to 1825.
- 375 LATIN AMERICA, 1825 TO THE PRESENT (5)  
Continuation of 374. The latter is not a prerequisite.
- 377 UNITED STATES DIPLOMATIC HISTORY (5)  
A survey of the foreign relations of the United States from the American Revolution to the present.
- 381 INTRODUCTION TO CHINA (5)  
(Political Science 390)  
Inquiries into the historical background of China and the cultural, philosophical, and religious fabrics of its society; survey of the relations between China and the West from the middle of the nineteenth century to the present.

- 389 THE FAR EAST IN THE MODERN WORLD (3)  
The Western powers in China, India, Japan and Southeast Asia; the Far East in world politics, including U.S. involvement in Viet Nam and its relations with the Soviet Union and China.
- 392 INTRODUCTION TO THE ISLAMIC WORLD (3)  
Survey of the pre-Islamic Near East, life of Muhammad, Islamic religion and philosophy, expansion of Islam, Islamic political states and Islamic-Christian relations.
- 393 MODERN NEAR EASTERN HISTORY (3)  
Survey of the Turkish Empire, 1700-1918; Islamic and Christian religious history in the Near East, 1700-1918; emergence of the Arab States and Israel; the continuing Arab-Israeli crisis.
- 413 RENAISSANCE AND REFORMATION (5)  
The Renaissance, including transition from medieval to modern European institutions; origin and development of the Protestant movement in Europe. Offered alternate years.
- 430 GREAT ISSUES IN EUROPEAN HISTORY (3) 1973-74  
Selected issues which have inspired sharp disagreement among historians; study of controversial historical literature.
- 446 UNITED STATES—EARLY NATIONAL PERIOD (3) 1973-74  
The United States from the winning of independence to 1801, with emphasis on the new government under the Constitution. Offered alternate years.
- 449 AMERICAN CIVIL WAR (3) 1973-74  
Causes, events and interpretations of the American Civil War. Offered alternate years.
- 450 UNITED STATES—LATE NINETEENTH CENTURY (3)  
The United States from 1877 to 1900; nationalization of government and economic organization; emergence of our nation as a world power.
- 452 EARLY TWENTIETH CENTURY AMERICA (3)  
The United States from the turn of the century to 1932.
- 455 RECENT UNITED STATES HISTORY (3)  
Political, economic, social and cultural history of the United States from 1932 to the present.
- 467 GREAT ISSUES IN AMERICAN HISTORY (3)  
Selected issues related to periods of crucial change in American life; study of controversial historical writings.
- 497 HISTORIOGRAPHY AND RESEARCH (5) 1973-74  
*Open to upper-division history majors.*  
Major historians and schools of historical interpretation; introduction to methods of research. Investigation and reports by students. Offered alternate years.
- 498 INDEPENDENT RESEARCH IN HISTORY (2-5)  
*Prerequisite: 15 hours of "A" or "B" in history courses.*  
Research and reporting on a significant historical topic as arranged between the student and instructor.

## Home Economics

Associate Professor: DOROTHY KREIDER, *Chairman*  
Assistant Professor: ABBIE DALE  
Instructors: FLORA BURNS, SALLY HASSELBRACK,  
MARY VERVER, MARILYN CRAMER

"Home Economics is the comprehensive study of man as a total being, his near environment and the

interaction between them." As a field of study home economics integrates the knowledge found in the Natural Sciences, Behavioral Science and the Arts.

The Department of Home Economics offers three degree programs: B.A., B.S. and B.A. in Education. Within these programs the following areas of concentration are provided: General Home Economics, Foods and Nutrition, Clothing and Textiles and Home Economics in Education.

### REQUIREMENTS FOR A MAJOR

For a B.A. and B.S. degree, of the total credits taken in Home Economics, twenty-five must be upper division. The B.A. degree is built around the basic liberal arts curriculum and the B.S. degree is built around the science pattern. Thirty credits in science are required for the B.S. degree. Each degree is built around the same basic core courses. Upon completion of the core courses the student selects upon advisement those courses required to complete his choice of concentration.

The core courses are Home Economics 100, 101, 103, 160, 230, 300, 312, 352, 364, 370, 405, (40 credits.)

Related courses required for a B.A. or B.S. degree include: Speech communication, Journalism, and Developmental Psychology.

Education students preparing to teach at the Junior or Senior high school level must meet the general education requirements, earn a B.A. or B.S. degree in home economics and be certified through the School of Education.

Vocational Home Economics requires additional educational certification from a vocationally certified institution. SPC students may meet these vocational requirements during their fifth year or by special arrangements concurrently during their work with SPC.

Students whose professional goal is Elementary or Pre-School Teaching or Early Childhood Education are required to complete 45 prescribed courses in home economics in addition to the general education and teacher certification requirements. The prescribed courses are listed under the School of Education, "Elementary Teaching Majors."

### Courses

- 100 HOME ECONOMICS COLLOQUY (2)  
To be taken by all departmental and broad area home economics majors. Understanding home economics as a discipline, degree requirements, career preparation.
- 101 ART OF LIVING (2)  
An interpretation of modern social usage. Understanding and applying the fundamental rules of etiquette which help to make one a desirable member of any social group, professional or business organization.
- 103 MAN'S NEAR ENVIRONMENT (5)  
(Formerly Basic Design.)  
Man's environment includes his Clothing, Shelter, Furnishings and Accessories, Table Appointments, Art Objects and all aspects of his material needs where a single selection is made and a composition achieved.
- 130 STITCHERY (2)  
(Formerly Needlecraft)  
An introduction to the basic needle arts. Historical perspective and some skill development. Term project to further develop specific area of interest.
- 138 SOCIOLOGICAL, PSYCHOLOGICAL FACTORS IN CLOTHING SELECTION (3)  
A study of the sociological, psychological and anthropologic factors which relate to clothing behavior of the individual and society. Extensive reading from the social science which relate to clothing will be covered.
- 140 CLOTHING SELECTION AND CONSTRUCTION (5)  
Principles of clothing construction with special emphasis on fitting, plus current fashion designers. Two garments are constructed.
- 160 FUNDAMENTAL PRINCIPLES OF NUTRITION (3)  
(Formerly Nutrition)  
Principles of meeting the nutritional needs of man for normal growth and development; identification, function, metabolism and food sources of specific nutrients.
- 230 INTRODUCTORY TEXTILES (3)  
A survey of natural and manmade fibers, fabrics, fabric construction and finishes. Relationship of raw materials, construction and finish to quality and cost.
- 240 FLAT PATTERN DESIGN (3)  
Prerequisite: Home Ec. 140 or permission of instructor.  
Problems of flat pattern techniques related to dress patterns. Use of half scale for exercises, followed by a completed full scale dress pattern using fabric.
- 265 FOODS (5)  
Prerequisite: Home Ec. 160.  
The development of the basic scientific concepts that are related to the preparation of foods; the study of the principles of food selection, storage, preparation based on a knowledge of the chemical and physical properties. Three lectures and two two-hour labs weekly.
- 300 FAMILY ECONOMICS AND CONSUMER PROBLEMS (5)  
See Economics 300  
(Formerly Consumer Problems)  
A comprehensive treatment of financial planning for individuals and families. A preparation for solving problems encountered in earning, saving, investing and spending one's income wisely. Familiarizing the student with agencies involved with consumer protection. Evaluating, through exploration, buying practices and the positive use of the purchasing dollar.
- 304 HOUSE DESIGN (3)  
Unifying esthetics and function in house planning; site, exterior design, floor plan, efficient work and storage areas, lighting, heating and materials.
- 312 HOME MANAGEMENT (5)  
Utilizing the case study method in family living. Emphasis upon decision making as affected by family values, philosophies, goals and resources, as well as general socio-economic conditions.

- 316 FOOD ECONOMICS AND NUTRITION FOR MEN (3)  
A survey of the nourishment and pleasure the food dollars buy. Demonstration and lecture with laboratory participation.
- 323, 324 WEAVING (2) (2)  
(See Art 323, 324 for description.)
- 330 TEXTILES (5)  
An intensive study of natural and manmade fibers, fabrics and finishes. Two hours laboratory experience included weekly.
- 341 TAILORING (3)  
Prerequisite: Home Ec. 140-240 or permission of instructor.  
Principles of suit and coat construction; making one complete garment.
- 342 HISTORY OF FASHION (3)  
A study of the fabrics and costumes from Ancient Western Civilizations to the present time with emphasis on the historic and cultural influences of the time.
- 352 MARRIAGE AND THE FAMILY (5)  
Prerequisite: Sociology 110. (See Sociology 352 for description.)  
A required supporting course for the Home Economics major, but may be counted as Home Economics in the Home Economics broad area for teaching.
- 358 SURVEY OF NUTRITIONAL SCIENCE (3)  
Prerequisites: Chemistry and Human Physiology.  
Introduction to the chemical and physiological aspects of compounds in foods and their nutritional significance. Chemistry of digestion, absorption and metabolism of nutrients essential for maintenance of health. Scientific principles of meeting the metabolic and nutritional needs of normal individuals throughout the life cycle.
- 360 FAMILY NUTRITION (3)  
Chemistry and metabolism of the nutrients needed for health. Essentials of adequate diets and food sources of the nutrients; meeting nutritional needs of each member of the family; nutritional composition of foods in relation to normal and modified dietaries. Nutrition education, its role in promoting health through good nutrition.
- 364 DEMONSTRATION TECHNIQUES (4)  
Prerequisites: Home Ec. 103, 140 or 341, 160, 265.  
Provides opportunity for demonstration theories involved in all secondary teaching areas of home economics. Student presentation using the lecture-demonstration method. Objective: to strengthen the student's cadet teaching experience. Out of class practicums provided.
- 365 MEAL PATTERNS AND FOOD ECONOMICS (5)  
Prerequisites: Home Ec. 101, 103, 160, 265, 312.  
Buying, management, preparations and serving of family and guest occasions. Cost patterns for various income levels within planned nutritional guidelines.
- 370 CULTURAL AND AESTHETIC ASPECTS OF FOOD (3)  
Prerequisite: Junior standing or permission.  
Role of food in shaping human destiny. Foods of various nationalities demonstrated with nutritional, scientific and economic considerations. Aesthetic aspects of food and equipment.
- 399 HOME ECONOMICS TEACHING METHODS FOR THE ELEMENTARY AND PRE-SCHOOL TEACHER (3)  
Developing teaching plans and techniques for teaching the basic concepts of the home economics discipline to elementary age children.
- 400 HOME ECONOMICS TEACHING METHODS (3)  
Prerequisites: Home Ec. 103, 140, 160, 265, 300, 312.  
Education courses.  
Methods (scope and sequence) of teaching specific home economics areas. Emphasis upon a critical understanding, development and organization of the subject content; lecture-demonstration method applied to the theories involved in teaching the secondary level. Supplementary topics include teaching aids, classroom problems and managing the department.
- 401 DRESS DESIGN AND DRAPING (3)  
Prerequisites: Home Ec. 140, 240, or by permission.  
Designing using the techniques of draping and drafting. Two

- original garments will be created on student's dress form.
- 402 HOME FURNISHINGS (3)  
Coordination of the house with furnishing accessories, color and lighting for family living. Unifying esthetics and function in home furnishing.
- 403 INTERIOR DESIGN (3)  
See Art 304.
- 405 SENIOR SEMINAR (2-3)  
Prerequisite: Home Economics major of senior standing.  
Problems of special need or interest.
- 408 READINGS IN HOME ECONOMICS (1-3)  
Prerequisite: Senior of major status with 15 upper division credits of "B" grade work in the department.
- 409 INDIVIDUAL STUDY (1-3)  
Requirement: Senior standing and a "B" average in Home Economics studies.
- 410 FASHION ILLUSTRATION  
Students wishing to have a course in sketches of fashion design should enroll in Art. 402.
- 420 SUPERVISED FIELD EXPERIENCE (3-15)  
DESIGN AND MARKETING  
Prerequisites outlined in conference.  
Observation, orientation and participation in employment with apparel manufacturers. The work experience must be planned in advance with the instructor to provide periodic evaluation of the training program.
- 421 SUPERVISED FIELD EXPERIENCE (3-15)  
BUSINESS OR SOCIAL WELFARE  
Observation, orientation, participation in employment with business or social agency hiring home economist or where home economics makes a valuable contribution as in marketing, consumer interests, and communications. Work experience planned in advance with the instructor.

### Librarianship

Associate Professors: HELEN STRICKLAND,  
MARGARET WOODS  
Assistant Professors: MARY HAMMACK, PETER SMITH  
Part-time Lecturers: LAURA ARKSEY,  
RICHARD HAMMOND

Courses in Librarianship at Seattle Pacific College are designed for (1) educational administrators and teachers studying the role of the library in the modern school, and (2) students preparing for learning resources positions in the schools. By combining Librarianship courses with work in audio-visual and educational media it is possible to develop competence in the management and use of school libraries. All 400 level courses are open to seniors, graduate non-degree and graduate degree students as electives.

For certification as a school librarian most states require at least a bachelor's degree with a specified number of courses in both education and library science. At present the State of Washington prescribes that a school librarian must hold a license to teach and must also have successfully completed a minimum of 18 quarter hours in courses that cover the areas of school library administration, cataloging and classification, book selection, materials and reference. It should be noted that forward-looking districts have already surpassed these minimum standards and are anticipating implementing higher national ones.

In keeping with these trends Seattle Pacific College strongly recommends that candidates for the position of school librarian possess a bachelor's degree and a valid teacher's certificate, have at least one year of successful classroom experience and take a sequence of courses in librarianship and educational media totaling a minimum of 18 quarter hours. The following series are offered:

Elementary School: Librarianship 400, 403, 405, 406, 433, Education 535.

Secondary School: Librarianship 402, 403, 405, 406, 433, Education 535.

*Graduate Programs in Librarianship.* It is possible to include the above series of courses in a fifth-year or Master of Education degree program for elementary and secondary teachers wishing to improve their competence in the area of school learning resources.

Most professional public, college, university and special library positions today require a master's degree in Library Science from a graduate school of librarianship approved by the American Library Association. For admission to such a school, the applicant must have the bachelor's degree; a superior academic record (at least a "B" average in courses of junior rank and higher); and usually one, sometimes two, foreign languages.

More than half of the accredited library schools require no undergraduate courses in librarianship since they prefer postponing all professional courses until the fifth year. The others require from 9 to 18 quarter hours of introductory library science at the undergraduate level.

80/ Courses: Librarianship / Mathematics

## Courses

- 400 CHILDREN'S BOOKS (3)  
A survey of children's literature, including historical background. Development of children's appreciation, taste and interest through books. Children's reading preferences. Therapeutic use of books. Selection and evaluation of books for school and public libraries. Reading and buying guides. Coordination with curricular needs.
- 402 BOOKS FOR TEENAGERS (3)  
Examination, reading, discussion, evaluation and selection of books for junior and senior high school students in relation to adolescent needs and interests. Standards for the acquisition of books, book lists and reviews of current books.
- 403 SCHOOL LIBRARY ADMINISTRATION (3)  
General survey of school libraries. School library standards. Function, administration, organization, services, materials, planning and equipment of school libraries and learning resource centers. Co-ordination with the instructional program of the school. Techniques in making materials available for use.
- 405 STORY TELLING (3)  
The art of learning and presenting stories in schools, libraries, churches, recreational centers and homes. The location of folk and fairy tales, epics, picture books and realistic materials. The encouragement of creative responses in children.
- 406 BASIC LIBRARY MATERIALS (3)  
Examination, evaluation, selection and use of basic reference tools and other sources of information, including national, trade and subject bibliographies. The course will also consider basic books and non-book library materials as they relate to the enrichment of the school curriculum.
- 433 IMPROVING TEACHING THROUGH AUDIO-VISUAL AIDS (3)  
A variety of audio-visual materials and equipment commonly available in the public schools will be examined with an emphasis upon local production and evaluation techniques.

## Mathematics

Professors: LLOYD J. MONTZINGO, *Chairman*;

O. KARL KRIENKE

Associate Professors: DAVID C. BROOKS, SAMUEL L.

DUNN, DICK A. WOOD

Part-time Lecturer: JANET B. BUCK

The Department of Mathematics offers curricula leading to the bachelor of arts and bachelor of science degrees. The bachelor of arts degree program is designed for students interested in mathematics as a liberal arts major and for those planning to teach mathematics in secondary schools. The bachelor of science degree program is designed for students planning graduate work or professional careers in mathematics.

*High School Preparation.* Three years of high school mathematics, including trigonometry, are required for all students entering one of the degree programs. However, students who plan to make mathematics a career are urged to take a minimum of four years of high school mathematics. Students deficient in their high-school mathematics preparation must take the appropriate courses in the sequence 101 and 110 to make up the deficiency before starting a program described below.

*Advanced Placement and Honors Program.* Superior students who have completed one year of calculus in high school may apply for advanced placement and credit for 125 and 126. The extent to which a student will be advanced and the amount of credit given will be decided on an individual basis by the department. For students with high ability and good high school preparation, honors sections are available in courses 125, 126 and 127.

*What to Take First.* In general, students with 4 years of high school mathematics should start with 125, those with 3 years should take 110, and those with 2 years should take 101. However, the mathematics department will determine where a student should start on the basis of his high school record and entrance test scores.

*B.A. Program.* Students planning a major in mathematics for the B.A. degree should take courses 125, 126, 127, 225, 226 and 227 in the first two years. (A student who begins in course 110 instead of 125 may omit 225.) The major will be completed by one of the following options:

1. *Liberal Arts Major.* This requires twenty-five credits in any courses numbered 300-499.
2. *Teaching Major.* This requires courses 300, 341, 342, 402, 403, and ten additional credits in courses numbered 300-499.

*B.S. Program.* Students planning a major in mathematics for the B.S. degree should take courses 125, 126, 127, 225, 226 and 227 in the first two years. The major will be completed by taking thirty-five credits in courses numbered 300-499 and, in addition,

3 credits in course 490. Fifteen credits in related approved courses in which mathematics is applied are also required. A grade-point average of 2.50 must be maintained for all *mathematics* courses. Students planning graduate work in mathematics are strongly advised to take courses 350, 402, 403, 451 and 452 in their upper-division program and to acquire a reading knowledge of French, German or Russian.

*B.S. Program in Mathematics-Economics.* A program has been set up, with the Economics and Business Department, to provide a joint major leading to the B.S. degree. This major is designed to provide a basis for graduate work in economics, econometrics, business administration, or computer science. It would also provide an adequate base for entering such professions as actuarial work or data processing. Students desiring to major in this program should be advised by the program coordinator (presently a member of the Mathematics faculty).

## REQUIREMENTS FOR A MAJOR

Mathematics: 125, 126, 127, 225, 226, 227, 300, 402, 425, 461, 462.

Economics: 200, 201, 251, 252, 407, 313 or 320, 402 or 414.

Engineering: 310.

A study, either in a seminar or independent study context, of a significant area of application of mathematics to economics (5 credits).

Mathematics (Economics-Business) 495, a one-quarter internship, or fifteen credits of approved course work.

## Courses

- 100 INTRODUCTION TO MATHEMATICAL THOUGHT (5)  
A terminal course to acquaint non-mathematics students with the nature of mathematics and some of its applications. Topics include sets, logic, number systems, algebra, computer programming.
- 101 INTERMEDIATE ALGEBRA (5)  
*Prerequisite:* One year of high school algebra. Not open for credit to students presenting a third semester of high-school algebra with a grade of B or above.  
Linear and quadratic equations, algebraic functions and their graphs, fractions, exponents, radicals, logarithms and imaginary numbers.
- 110 ALGEBRA AND TRIGONOMETRY (5)  
*Prerequisite:* Math. 101 or equivalent in high school.  
Elementary set theory, operations of algebra, analytic trigonometry, theory of equations, inequalities.

125, 126, 127 **ELEMENTARY CALCULUS (5) (5) (5)**  
*Prerequisite: Math. 110 or equivalent for 125, 125 for 126, 126 for 127. Sequence begins both Au and Wi.*  
 Differential and integral calculus of functions of one and more variables. Elementary programming using Basic.

160 **INTRODUCTION TO STATISTICS (5)**  
*Prerequisite: High school algebra or Math. 101.*  
 This course is designed to acquaint the non-Mathematics major with the basic ideas of the collection, organization, and statistical analysis of data. It should provide a basis for both enlightened interpretation of statistical statements by laymen, and more specialized study in areas of application. Methods of application will be emphasized, and will cover a broad range of topics in the biological and social sciences.

225, 226, 227 **INTERMEDIATE CALCULUS (5) (5) (5)**  
*Prerequisite: Math. 127 for 225 and 226, 226 for 227.*  
 Set theory, probability, linear algebra, differential equations.

229 **MATHEMATICS FOR ELEMENTARY TEACHERS (5)**  
 A study of sets, number systems and algebra as related to elementary school mathematics.

300 **THEORY OF SETS (3)**  
*Prerequisite: Math. 127.*  
 Finite and infinite sets, set algebra, cardinal numbers, ordinal numbers, well ordering property.

325 **APPLIED ANALYSIS (5)**  
*Prerequisite: Math. 227.*  
 Vector analysis, Fourier series, partial differential equations.

326 **COMPLEX VARIABLES (5)**  
*Prerequisite: Math. 227.*  
 Theory and applications of complex variables. Analytic functions, integrals, power series applications.

329 **FURTHER TOPICS IN MATHEMATICS FOR ELEMENTARY TEACHERS (3)**  
*Prerequisite: Math. 229.*  
 An informal study designed to provide an understanding of the algebra and geometry taught in the elementary school. May not apply on a major for B.A. or B.S.

341, 342 **GEOMETRY (3) (3)**  
*Prerequisite: Math. 300 for 341, 341 for 342.*  
 Foundations of Euclidean geometry and an introduction to non-Euclidean and projective geometries.

350 **INTRODUCTION TO REAL ANALYSIS (3)**  
*Prerequisite: Math. 227.*  
 A study of the real number system, functions, limits, continuity, differentiation and the Riemann integral.

402, 403 **MODERN ALGEBRA (3) (3)**  
*Prerequisite: Math. 300 for 402, 402 for 403.*  
 A study of algebraic structures including groups, rings, and fields.

425 **NUMERICAL ANALYSIS (5)**  
*Prerequisite: Math. 227 and knowledge of a computer language.*  
 Numerical integration, differentiation, solutions of systems of equations, solutions of differential equations, interpolation, approximations and related topics.

430 **MATHEMATICAL MODELING (5)**  
*Prerequisite: Math. 225, 227.*  
 Mathematical models for problems in the real world will be constructed and analyzed. The problems will be chosen from a variety of fields, including the biological and social science.

451, 452 **REAL ANALYSIS (3) (3)**  
*Prerequisite: Math. 350 for 451, 451 for 452.*  
 Point-set topology, sequences and series, metric spaces, Lebesgue integration.

461, 462 **MATHEMATICAL STATISTICS (3) (3)**  
*Prerequisite: Math. 225 and 227 for 461, 461 for 462.*  
 Continuous probability distributions, sampling, estimating parameters, testing hypotheses.

470 **THE EVOLUTION OF MATHEMATICAL THOUGHT (5)**  
 Not offered 1972-73

*Prerequisite: 20 credits in courses 300-499.*  
 This course is designed to help in understanding and appreciating mathematics by investigating the ideas, methods and work of great mathematicians of the past.

480 **READING IN MATHEMATICS (1-5)**  
*Prerequisite: Upper division status and permission of the department.*

490 **MATHEMATICS SEMINAR (1)**  
*Prerequisite: Math. 227.*  
 Topics not included in the regular curriculum are investigated and reported on by the students. A maximum of 6 credits may be earned.

495 **INTERNSHIP (15)**  
*Prerequisite: Senior standing in Mathematics-Economics major.*  
 A significant learning experience to be obtained in a closely supervised work-study program.

## Music

*Professors: WAYNE H. BALCH, Director;*  
*WINIFRED J. LEIGHTON, CARL H. REED*  
*Associate Professors: MARCILE C. MACK,*  
*PHILIP J. MACK*  
*Assistant Professors: LESTER H. GROOM, IRA L. JONES,*  
*WADAD SABA*

*Instructor: LYLURN LAYER*  
*Part-time Lecturers in Applied Music: ROBERT BUNE,*  
*HELEN BURGESS, DON BUSHELL, MYRNA CAPP,*  
*KENNETH CLOUD, PAUL HASS, WINSTON A.*  
*JOHNSON, KATHIE SHARP, RICHARD SKERLONG,*  
*CARLETON WHECHEL*

For further information concerning majors in Music see the section entitled "School of Music," page 44.

### Courses

101, 102, 103 **MUSIC THEORY (4) (4) (4)**  
*Prerequisites: A minimum of one year of piano study for 101, 101 for 102 and 102 for 103.*  
 Class meets five periods weekly. Diatonic harmony embracing triads and seventh chords presented both from the theoretical and creative aspects, and combined with dictation, sight singing, analysis and keyboard harmony.

111, 211, 311, 411 **INDIVIDUAL INSTRUCTION—BRASS (1 or 2)\***  
 May be repeated for credit. Upper division credit upon approval of music faculty. (*Extra fee.*)

\*Under certain conditions and with special permission of the Director of Music, Individual Instruction may be taken for 3 credits.

112, 212, 312, 412 **INDIVIDUAL INSTRUCTION—ORGAN (1 or 2)\***  
 May be repeated for credit. Upper division credit upon approval of music faculty. (*Extra fee.*)

113, 213, 313, 413 **INDIVIDUAL INSTRUCTION—PERCUSSION (1 or 2)\***  
 May be repeated for credit. Upper division credit upon approval of music faculty. (*Extra fee.*)

114C **CLASS INSTRUCTION—PIANO (1)**  
 May be repeated only once for credit.  
 Two class sessions per week. (*Extra fee.*)

114, 214, 314, 414 **INDIVIDUAL INSTRUCTION—PIANO (1 or 2)\***  
 May be repeated for credit. Upper division credit upon approval of music faculty. (*Extra fee.*)

115, 215, 315, 415 **INDIVIDUAL INSTRUCTION—STRINGS (1 or 2)\***  
 May be repeated for credit. Upper division credit upon approval of music faculty. (*Extra fee.*)

116C **CLASS INSTRUCTION—VOICE (1)**  
 May be repeated only once for credit.  
 Two class sessions per week. (*Extra fee.*)

116, 216, 316, 416 **INDIVIDUAL INSTRUCTION—VOICE (1 or 2)\***  
 May be repeated for credit. Upper division credit upon approval of music faculty. (*Extra fee.*)

117, 217, 317, 417 **INDIVIDUAL INSTRUCTION—WOODWINDS (1 or 2)\***  
 May be repeated for credit. Upper division credit upon approval of music faculty. (*Extra fee.*)

131, 231, 331, 431 **ORATORIO (1)**  
 Preparation and performance of oratorios and other large choral works. No auditions required. May be repeated for credit.

132, 232, 332, 432 **ENSEMBLE (½ or 1)**  
 Chamber music groups—woodwinds, brass, strings, vocal—rehearsing under faculty supervision. May be repeated for credit.

133, 233, 333, 433 **COLLEGE CHOIR (1)**  
*Membership by audition.*  
 An organization of fifty mixed voices. Members are required to sing in Oratorio Society and to participate in all public performances throughout the year. May be repeated for credit.

136, 236, 336, 436 **CONCERT BAND (1)**  
*Membership by audition.*  
 Performance of the standard symphonic band repertoire. May be repeated for credit.

137, 237, 337, 437 **COLLEGE ORCHESTRA (1)**  
*Membership by audition.*  
 Strings with selected woodwinds, brass and percussion; performance of works from the extensive orchestra literature. May be repeated for credit.

138, 238, 338, 438 **STAGE BAND (1)**  
*Membership by audition.*  
 An organization of 17-21 instrumentalists performing music from the jazz and jazz-rock literature. May be repeated for credit.

139, 239, 339, 439 **COLLEGIUM MUSICUM (1)**  
*Prerequisite: Permission of instructor.*  
 A small ensemble of vocalists and instrumentalists which specializes in the preparation and performance of historical and contemporary music. Two 1-hour rehearsals per week. May be repeated for credit.

180 **LANGUAGE AND LITERATURE OF MUSIC (5)**  
 A Fine Arts option in General Education for non-music majors. Emphasis on listening, musical styles and the elements of musical notation, terminology and form.

\*Under certain conditions and with special permission of the Director of Music, Individual Instruction may be taken for 3 credits.

201, 202, 203 **MUSIC THEORY (4) (4) (4)**  
*Prerequisite: Music 103 for 201, 201 for 202, 202 for 203.*  
 Class meets five periods weekly. Secondary harmonies, modulations and altered chords; increased emphasis upon creative work; advanced problems in dictation, sight singing, analysis and keyboard harmony.

221 **BRASS AND PERCUSSION TECHNIQUES (1)**  
 Methods of teaching and playing brass and percussion instruments.

224 **CHURCH ORGANIST AND PIANIST (2)**  
*Prerequisite: Permission of instructor.*  
 A practical course for the church musician emphasizing hymn playing, accompaniment, improvisation, modulation and transposition.

225 **STRING TECHNIQUES (1 cr. in each of 2 quarters)**  
 Methods of teaching and playing string instruments.

226 **FOREIGN LANGUAGE DICTION FOR SINGERS (2)**  
 A course employing the phonetic approach to French, German and Italian diction. (Three class meetings per week.)

227 **WOODWIND TECHNIQUES (1)**  
 Methods of teaching and playing woodwind instruments.

260 **BASIC CONDUCTING (3)**  
 A first course in conducting for both majors and non-majors; fundamental conducting patterns and techniques.

281 **SURVEY OF MUSIC LITERATURE I (3)**  
 Music of the Baroque and the early Classic periods.

282 **SURVEY OF MUSIC LITERATURE II (3)**  
 Music of the high Classic, Romantic and Impressionistic periods.

301 **FORM AND ANALYSIS (3)**  
*Prerequisite: Music 203.*  
 A study of the standard musical forms incorporating score analysis, aural perception and creative work.

307 **TONAL COUNTERPOINT (3)**  
*Prerequisite: Music 203.*  
 Analysis of contrapuntal models of the 18th and 19th centuries. Writing in 2, 3 and 4 voices.

340 **MUSIC FOR THE ELEMENTARY CLASSROOM TEACHER (5)**  
 Survey of materials, proper use of the singing voice, development of rhythmic response and training in music reading. Not open to music majors.

341 **TEACHING MUSIC IN ELEMENTARY GRADES, K-4 (3)**  
 Methods of teaching classroom music activities and directing the total music program in elementary grades. Designed for music education majors.

342 **TEACHING MUSIC IN THE MIDDLE GRADES, 5-8 (3)**  
 Classroom music activities, organization of vocal and instrumental music programs, and methods of teaching general music classes in junior high school. Designed for music education majors.

343 **TEACHING MUSIC IN HIGH SCHOOL, 9-12 (3)**  
 Survey of materials for the high school vocal and instrumental music programs and methods of presenting them. Preparation of assembly and other special musical programs. (See Education 363.) Designed for music education majors.

344 **PIANO TEACHING METHODS (2)**  
*Prerequisite: Permission of instructor.*  
 An analysis of modern teaching methods and a survey of materials from the primary through the intermediate levels.

362 **CHORAL CONDUCTING (3)**  
*Prerequisite: Music 260.*  
 Advanced conducting techniques; use of video-tape machine; emphasis on choral materials for students majoring in secondary education or church music; practical internship recommended, conferences for interns.

363 **INSTRUMENTAL CONDUCTING (3)**  
*Prerequisite: Music 260.*  
 Elementary score reading, baton techniques, instrumentation, conducting experience with instrumental emphasis.

- 375 **MUSIC AND WORSHIP (2)**  
Philosophical and theological relationships of music to the worship of the Christian Church.
- 377 **CHURCH MUSIC REPERTOIRE (2)**  
A survey and analysis of music for organ, choir and soloists appropriate for use in the church.
- 380 **HISTORY OF AMERICAN MUSIC (3)**  
A survey of music in America from colonial times to the present.
- 381 **MEDIEVAL AND RENAISSANCE MUSIC (3)**  
Survey of music from the early Christian period through the 16th century.
- 384 **TWENTIETH CENTURY MUSIC (3)**  
Survey of the principal musical practices and developments of the 20th century.
- 400, 401, 402 **COMPOSITION (2) (2) (2)**  
*Prerequisites: Music 203, 301 and 307 or permission.*  
Techniques and styles of musical composition with emphasis upon contemporary idioms.
- 403 **INSTRUMENTATION AND ORCHESTRATION (3)**  
*Prerequisite: Music 203.*  
History, technical limitations and use of orchestral instruments; practical experience in scoring for various combinations of instruments.
- 471 **CHRISTIAN HYMNODY (3)**  
The hymn studied from the standpoint of its history, classification, criticism and effective use in the worship service. (See Religion 471.)
- 481 **THE ERA OF TONALITY, 1600-1900 (5)**  
*Prerequisite: Music 180 or permission.*  
Styles and forms that have been shaped by the forces of tonality. Studies of outstanding masterworks and composers of this period.
- 487, 488, 489 **READINGS IN MUSIC HISTORY OR MUSIC EDUCATION (2) (2) (2)**  
*Prerequisites: Senior standing, permission of Director of Music, and fifteen upper division credits of "B" work in the department.*
- 490 **MUSIC AND IDEAS (3)**  
Philosophical, historical and sociological movements that determine the shape and destiny of music.

### Evening and/or Summer Courses

- 119 **BEGINNING FOLK GUITAR (1)**  
Class instruction in folk style guitar playing.
- 318 **THE ART OF HAND BELL RINGING (2)**  
Lectures, discussion and ringing instructions designed to acquaint the student with hand bells and their use as a teaching aid in Music Education.
- 319 **FOLK GUITAR WORKSHOP (1 or 2)**  
Group instruction and teaching methods adaptable to school use.
- 351 **MUSIC AS A RESOURCE FOR SOCIAL STUDIES (3)**  
Correlating songs, instrumental compositions and rhythms with the social studies of the elementary and junior high grades.
- 440 **NEW DIMENSIONS IN MUSIC EDUCATION (3)**  
Presentation of the Kodaly approach to music reading.
- 441 **LISTENING EXPERIENCES FOR THE ELEMENTARY CHILD (3)**  
Sources and methods of presenting music appropriate to the age and experiences of the elementary child.
- 442 **INSTRUMENTAL APPROACH TO ELEMENTARY CLASSROOM MUSIC (2)**  
Rhythmic and melodic emphasis through the use of block flute, glockenspiel, percussion instruments and body movements.
- 450 **MUSIC EDUCATION WORKSHOP—ELEMENTARY (2)**  
Methods and curricula in the teaching of music in elementary grades, including use of educational television as an instructional device. (See Education 450.)

- 470 **WORKSHOP IN CHURCH MUSIC (2)**  
In-service training sessions dealing with the philosophy, traditions, current issues and trends and the practical aspect of church music.
- 472 **MUSIC IN THE CHURCH (3)**  
Historical perspectives, contemporary trends and practical aspects of music in the worship of the Christian Church.
- 478 **CHURCH MUSIC ORGANIZATION AND ADMINISTRATION (2 or 3)**  
The music department of the church, its problems and relationship to the total church program.

## Nursing

*Associate Professor: LYDIA F. GREEN, Director*  
*Assistant Professor: DELLA TIEDE*  
*Instructors: DONNA DEGRAW, HELEN MORROW, ANNALLEE OAKES*  
*Part-time Lecturers: CAROL BRITTAİN, MARY FRY, JERRY D. HUGGINS, DARLENE MCCOWN, MARY MOSES, JANET PAYNE, JOAN REESE*

For further information regarding the nursing curriculum, see page 47 in this catalog under "School of Nursing."

### Courses

- 204 **FUNDAMENTALS OF NURSING I (4)**  
Orientation to the profession and introduction to basic concepts of health, illness and nursing. Emphasis on Christian concern and scientific principles as the rationale for patient care.
- 205 **LABORATORY IN FUNDAMENTALS OF NURSING I (2)**  
Six hours in hospital per week. Experience in basic skills in patient care with concern for the individuality of man as a spiritual, physiological, and psychosocial being.
- 206 **FUNDAMENTALS OF NURSING II (3)**  
*Prerequisite: Nursing 204, 205.*  
Continuation of principles of nursing care related to man's basic needs. Theories of nursing intervention in emergent situations.
- 207 **LABORATORY IN FUNDAMENTALS OF NURSING II (2)**  
Six hours in hospital per week. Continued experience in basic skills with beginning systematic assessment of nursing needs of patients.
- 340 **PHARMACOLOGY AND THERAPEUTICS (3)**  
*(Formerly Nursing 261.) Concurrently with Nursing 206.*  
Methods of drug administration and dosage calculation. Effect of drugs upon patients and influence on enzyme systems and metabolic pathways. Understanding and detection of adverse drug reactions. Emphasis is placed on basic principles of drug action and those therapeutic drug classes that are clinically significant to the professional nurse.
- 360 **FAMILY CENTERED MATERNITY NURSING (4)**  
*Prerequisite: Fundamentals of Nursing I, II.*  
Introduction to major concepts of family-centered care of mothers and infants. Scientific and nursing principles in the care of women in all phases of the reproductive cycle and in the care of the

- newborn infant. Theory and practice correlated with experience in physicians' offices and hospitals and visits in the home.
- 361 **LABORATORY IN FAMILY CENTERED MATERNITY NURSING (5)**  
(Fifteen hours per week.)
- 362 **NURSING OF CHILDREN AND ADULTS I (4)**  
*Prerequisite: Nursing 204, 206.*  
Correlated theory and practice in the learning and application of scientific and nursing principles involved in understanding the well child from infancy through adolescence, and in caring for the child who deviates from the normal. Emphasis on health supervision, common illnesses, and disabilities.
- 363 **LABORATORY IN NURSING OF CHILDREN AND ADULTS I (5)**  
Fifteen hours per week in hospital and agencies.
- 364, 366 **NURSING OF CHILDREN AND ADULTS II, III (5) (5)**  
*Prerequisite: Nursing 362, 363.*  
Assessment, planning, and evaluation of nursing care for the psychosocial man based on the mechanisms and manifestations of physiology and patho-physiology.
- 365, 367 **LABORATORY IN NURSING OF CHILDREN AND ADULTS II, III (5) (5)**  
Concurrent practicum including four weeks in operating room nursing. Fifteen hours per week concurrent with Nursing 364, 366.
- 412 **SCIENTIFIC PRINCIPLES OF NURSING CARE\***
- 413-414 **PSYCHIATRIC MENTAL HEALTH NURSING PRINCIPLES AND PRACTICES\***
- 415-416 **COMMUNITY HEALTH PRINCIPLES AND PRACTICES\***
- GERONTOLOGY NURSING FUNCTIONS\***
- 428 **ADVANCED NURSING (4) Senior Year**  
Principles in advanced comprehensive nursing care. Introduction to nursing leadership, research and teaching.
- 429 **LABORATORY IN ADVANCED NURSING (6)**  
(Eighteen hours per week.)
- 430 **SEMINAR IN HISTORY AND PROFESSIONAL TRENDS IN NURSING (3) Senior Year**  
*Concurrently with Nursing 428, 429.*  
A study of historical foundations of professional nursing and of current trends in nursing and nursing education. Professional, legal and ethical responsibilities of the graduate nurse.

\*Affiliation with the University of Washington.

## Philosophy

*Professors: WALTER H. JOHNSON, Chairman;*  
*ORA KARL KRIENKE, RAYMOND J. WELLS*  
*Assistant Professor: MICHAEL H. MACDONALD*

In philosophy courses the student aims to discover meanings as well as facts and methods, to develop ability to think clearly and consistently, to secure a perspective of the history of thought, and to

build a satisfactory philosophy of life. Because many philosophy courses correlate significantly with those of other departments such as history, psychology, religion, literature and science, they are recommended as electives for students majoring in these departments.

### REQUIREMENTS FOR A MAJOR

At least forty-five credits in philosophy, twenty of which must be upper division.

### Courses Offered Each Year

- 101 **INTRODUCTION TO PHILOSOPHY (5)**  
Problems which since the earliest days have occupied the mind of man; survey of methods of philosophical study; emphasis on building a strong personal philosophy of life.
- 230 **LOGIC (5)**  
A study of orderly and consistent thinking; use of deductive and inductive methods. A brief introduction to symbolic logic is given.
- 301 (201) **ANCIENT PHILOSOPHY (5)**  
An introduction to great philosophies of the Western world from 600 B.C. to Augustine. Emphasis will be placed on basic source writings of these philosophers.
- 320 **PHILOSOPHY OF RELIGION (3)**  
Relationship between philosophy and religion, especially the basic philosophical assumptions which establish the validity of religious experience.
- 340 **PHILOSOPHIES OF LIFE (3)**  
Persons and problems in various philosophies of life. An attempt to observe the relevance of philosophy to all phases of a wholesome, practical life. May be taken only if 101 is not included with lower division studies.
- 481, 482, 483 **DIRECTED READINGS (1-3) (1-3) (1-3)**  
*Prerequisites: Senior standing, permission from instructor.*

### Offered Alternate Years

- 205 (305) **ETHICS (3)**  
Origin and growth of moral theories of good and bad, right and wrong; application to social, political and personal problems.
- 302 (202) **MEDIEVAL PHILOSOPHY (5)**  
Philosophy from Augustine through Ockham. Anselm, Maimonides, Abelard, Thomas Aquinas are among those studied.
- 303 (203) **MODERN PHILOSOPHY (5)**  
Philosophy from DesCartes to Kant. Spinoza, Locke, Berkeley, Leibnitz, Hume are included.
- 304 (204) **RECENT PHILOSOPHY (5) 1973-74**  
Schleiermacher, Nietzsche, Spencer, Bradley, Royce, Bergson, Kierkegaard, Dewey and Whitehead are among the philosophers covered in this survey.
- 310 **EPISTEMOLOGY (3)**  
Nature, grounds, limits and validity of human knowledge; theories of thought and knowledge examined and evaluated; special reference to the field of religious knowledge.
- 330 **PHILOSOPHY OF SCIENCE (5) 1973-74**  
Relationship between the sciences and philosophy; philosophical implications of relativity and quantum mechanics; the operationist and causal interpretations of science.

339 THEISM (3)  
Nature, validation and implication of the Christian view of God. Consideration of contemporary "God is dead" views.

350 NINETEENTH CENTURY GERMAN PHILOSOPHY (5)  
A study of the main philosophical developments of 19th century German philosophy with an emphasis on Kant and German idealism. Such philosophers as Fichte, Hegel, Schopenhauer, and Nietzsche will be included.

411 AESTHETICS (3) 1973-74  
A study of the nature of beauty, its expression in the fine arts and its place in our common life.

415 EVANGELICAL PHILOSOPHY (3) *Not offered 1972-73*  
A seminar concerned with investigating the literature available from such representatives as Edward J. Carnell, C. F. H. Henry and Gordon Clark to evaluate their relevance in contemporary philosophy.

423 PHILOSOPHICAL THEOLOGY (3) 1973-74  
Observation of the normalcy of interaction between philosophy and theology with emphasis given to examples of this interchange.

425 EXISTENTIALISM (3)  
An introduction to the basic concepts of existentialism. Source reading will be done in representatives such as Dostoevski, Kierkegaard, Nietzsche, Marcel, Heidegger, Sartre, Jaspers and Tillich.

## Physical Education

Professors: KENNETH E. FOREMAN, *Chairman*;  
LESTER N. HABEGGER

Assistant Professor: SHARON STROBLE

Instructors: DORIS BROWN, FRANK FURTADO,  
KEITH SWAGERTY

Part-time Lecturers: INGA-LISA FRANZON,  
STEVE GOUGH

The Department of Physical Education encompasses five inter-related areas of activity — the service program, health education, intramural sports, intercollegiate athletics and undergraduate professional preparation in physical education.

**Service Program.** All students must complete six quarter credits in physical education selected from courses 100-150. These courses should be completed by the end of the sophomore year. Three credits in P.E. 150 apply toward graduation.

**Intramural Program.** Intramural sports activities are provided for both men and women students. Tournaments are scheduled in such activities as

basketball, volleyball, touch football, tennis, badminton, table tennis, bowling and softball.

**Intercollegiate Athletics.** The intercollegiate athletic program includes basketball, cross-country, track and field, wrestling and soccer. SPC is actively associated with the N.C.A.A. Operating as an independent, the college regularly competes with leading college and university teams on the Pacific coast.

**Competitive Athletics for Women.** Women's athletics, an adjunct to the physical education program, includes competition in basketball, volleyball, and track and field. Teams representing SPC compete against other colleges and universities in the Northwest and are members of the Northwest College Women's Sports Association (NCWSA). Physical education majors are expected to participate in this program.

**Professional Preparation in Physical Education.** Students majoring in physical education, or minoring in physical education, or athletic coaching must complete courses 190-192 and 290-292 and satisfy the requirements for 117 (intermediate swimming). Physical education majors must complete a minimum of 41 additional credits including Physical Education 160, 161, 200, 280, 320, 321, 380, 395, 420, 421, and 422.

In addition to the 190-290 series students minoring in physical education must complete a minimum of 20 credits selected from the following courses: 160, 161, 210 or 211, 380, 420 or 421, and 422.

**Professional Preparation in Athletic Coaching.** Students electing to minor in athletic coaching must complete 25 units selected from the following: 200, 216, 320, 321, 395, 450 and 380 or 420 or 421.

**Professional Preparation in Health Education.** Students choosing to minor in health education are encouraged to complete a broad general education, with elective courses in physiology and anatomy as well as chemistry and bacteriology when possible.

All students completing the health education minor must take a minimum of 20 credits in the following

courses: Physical Education 160, 216, 453, 470, Home Economics 160, Biology 350, Sociology 352 and Psychology 406.

**Professional Preparation in Recreation.** While a major is not offered in this area, a sequence of course experiences preparing one for vocational service in recreation is recommended by the Physical Education department.

### General Activity Courses

- 100mw BACKPACKING (2)  
Students provide their own equipment for one day hikes.
- 101mw BADMINTON (BEGINNING) (1)
- 102mw BADMINTON (INTERMEDIATE) (1)
- 103m BASKETBALL (1)
- 103w BASKETBALL (1)
- 104m BODY BUILDING (1)
- 104w BODY MECHANICS (1)
- \*105mw BOWLING (1)
- \*106mw GOLF (1) *No special fee (go to golf course)*
- 107mw GYMNASTICS AND TUMBLING (1)
- 108mw JOGGING (1)
- 109mw MOUNTAIN CLIMBING (2)
- 110w RHYTHMIC ACTIVITY (1)
- 111mw SELF DEFENSE (1)
- \*112mw SKIING (BEGINNING) (1)
- \*113mw SKIING (INTERMEDIATE) (1)
- \*114mw SKIING (ADVANCED) (1)  
*A special fee of approximately \$40.00 is charged for these courses, which includes eight "on the hill" lessons and transportation. All students registering for skiing must ride the special chartered bus.*
- 115mw SNOWSHOEING (2)  
Students provide their own equipment for one day trips.
- \*116mw SWIMMING (BEGINNING) (1)
- \*117mw SWIMMING (INTERMEDIATE) (1)  
*Prerequisite: Knowledge of four basic strokes (crawl, side stroke, breast stroke, elementary back stroke).*
- \*118mw SWIMMING (LIFE SAVING) (2)  
*Prerequisite: P.E. 117mw or equivalent. Red Cross senior life saving course.*
- \*119mw SWIMMING (WATER SAFETY INSTRUCTION) (2)  
*Prerequisite: P.E. 118mw or current senior life saving certification. The Red Cross course for teachers, administrators and aquatic directors—preparing them to perform and teach swimming, diving and life saving skills.*
- 120mw TENNIS (BEGINNING) (1)
- 121mw TENNIS (INTERMEDIATE) (1)
- 122mw TRACK AND FIELD (1)
- 123m VOLLEYBALL (BEGINNING) (1)
- 123w VOLLEYBALL (BEGINNING) (1)
- 124mw VOLLEYBALL (INTERMEDIATE) (1)
- 126mw CYCLING (1)
- 127mw KAYAKING (1)
- 150m VARSITY ATHLETICS (1)

150w EXTRAMURAL SPORTS (1)  
*No student may earn more than THREE credits in P.E. 150m or 150w toward fulfillment of graduation requirements.*

### Professional Activity Courses

(For Physical Education majors and minors only)

- 190m FOOTBALL AND SOCCER (2)
- 190w BASKETBALL AND HOCKEY (2)
- 191mw BADMINTON AND VOLLEYBALL (2)
- 192mw GOLF AND TENNIS (2)
- 290m WRESTLING (2)
- 290w CREATIVE MOVEMENT AND RHYTHMIC EXERCISE (2)
- 291mw GYMNASTICS AND FOLK RHYTHMS (2)
- 292mw TRACK AND FIELD (2)

### Professional Courses in Physical Education

- 160 HEALTH EDUCATION (3)  
Guidance in attaining social, mental, emotional and physical maturity and well being.
- 161 INTRODUCTION TO HEALTH, PHYSICAL EDUCATION AND RECREATION (3)  
Orientation to the fields of *physical education*, recreation, and health; career opportunities; professional preparation and qualifications; historical perspectives; field experience.
- 200 FIELD EXPERIENCE (3)  
Experiences in the organization and conduct of physical education, recreational, or athletic programs under the leadership of professional personnel. May be taken any quarter (including summer) by special permission prior to registration.
- 210 PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL CHILD (3)  
Understanding and planning the elementary school physical education program for grades 1 through 3. Concentration on movement exploration, rhythms, fundamental skills and low organized games.
- 211 PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL CHILD (3)  
Understanding and planning the elementary school physical education program for grades 4 through 6. Concentration on major sports skills, folk rhythms, stunts and tumbling and fitness testing and evaluation.
- 280 CAMPING AND RECREATIONAL LEADERSHIP (5)  
History and Philosophy. Leadership techniques, programming, organization, administration, and field experiences.
- 320 PRINCIPLES OF COACHING (3)  
A study of the psychology and technique of sports performance, for the purpose of developing both a philosophy of coaching and a system of beliefs or principles to be applied to the motivation, teaching and handling of student-athletes.
- 321 PREVENTION AND TREATMENT OF ATHLETIC INJURIES (3)  
The role of the coach in the prevention, treatment and rehabilitation of injuries related to athletic activities. Particular emphasis given to the development of a comprehensive conditioning program. Practical experience in the technique of strapping and the utilization of treatment modalities.

\*Special fee.  
Letters following course numbers signify the following:  
m—men, w—women, mw—co-educational.

- 380 PRINCIPLES OF INSTRUCTION AND EVALUATION (5)  
A course covering recent research in instructional methodology; the selection and administration of tests and the interpretation of test results as an adjunct to the teaching-learning process.
- 395 INTERNSHIP (1-3)  
Assisting in the teaching-coaching situation with individual responsibility for organizing, conducting and evaluating learning experiences. Or, participation in a research project in conjunction with the professional or service programs at SPC. May be taken any quarter (including summer) by special permission prior to registration.
- 420 FOUNDATIONS . . . KINESIOLOGY (5)  
Analysis of performance including structure and function of the musculo-skeletal systems; mechanical principles, leverage, laws of motion, rotary force; emphasizing both normal and atypical patterns of movement.
- 421 FOUNDATIONS . . . PHYSIOLOGY (5)  
Homeostatic adjustments to the stress of exercise and environmental conditions with special reference to demanding physical activity and the study of neuro-muscular control mechanisms.
- 422 FOUNDATIONS . . . SOCIAL, PSYCHOLOGICAL, PHILOSOPHICAL (5)  
Theories of play. Sport in society. The meaning and significance of movement to modern man.
- 450 PRINCIPLES OF ATHLETIC ADMINISTRATION (3)  
A study of selected problems related to the interscholastic athletic program, with experience in the development of principles to be utilized as guides to their resolution.

### Summer Session and Fifth Year Courses

- 216 FIRST AID (3)  
Techniques in emergency care of victims of accidents or sudden illness. May lead to standard and advanced Red Cross certification.
- 453 METHODS AND MATERIALS IN HEALTH TEACHING (3)  
Health instruction in Elementary, Junior and Senior High Schools, including subject matter, source materials and methods.
- 460-468 SPECIAL WORKSHOPS AND CLINICS (1-3)  
Track and Field. Gymnastics. Volleyball, Tennis and Wrestling. Playground activities for Elementary school children, Rhythms for the Elementary school child.
- 470 DRUG ABUSE SEMINAR  
A comprehensive study of drug abuse in contemporary society. The seminar will deal with the causative factors underlying drug abuse; the consequences of drug abuse and the possibilities of effecting a cure for those who have become drug dependent. Special emphasis will be given to the role of the school and church in dealing with the drug abuse problem.
- 480 PRINCIPLES AND PRACTICE OF PHYSICAL FITNESS AND CONDITIONING  
Investigation of fitness components, exercise physiology, and rehabilitation with emphasis on the average person rather than the athlete. Includes both classroom and activity periods with opportunity to improve personal fitness levels.
- 490 PROBLEMS AND TRENDS IN PHYSICAL EDUCATION AND ATHLETICS (3)  
A study of problems experienced in the teaching-coaching situation. Review of contemporary literature pertaining to changing ideas and contemporary trends. Application of theory and practice to the improvement of physical education and athletic programs.

## Physical Science

(See also Physics and Chemistry)

Professors: ROGER H. ANDERSON, BURTON D. DIETZMAN, O. KARL KRIENKE, *Acting Coordinator*, WESLEY E. LINGREN  
Associate Professors: JAMES H. CRICHTON, ROBERT C. HUGHSON, PAUL A. LEPSE, HUGH NUTLEY, DAVID U. L. YU  
Assistant Professor: GRAYSON L. CAPP

The Physical Science curriculum is an interdisciplinary offering involving a broad coverage of topics in the physical sciences. Courses that are neither strictly physics nor strictly chemistry but involve both physics and chemistry or other physical sciences such as astronomy and geology are listed below. Courses that are strictly physics or strictly chemistry are listed in the "Physics" and "Chemistry" sections of this catalog, respectively.

At present there is no undergraduate major in physical science leading to a baccalaureate degree.

Graduate studies\* in physical science may be applied toward the Master of Arts in Teaching degree (M.A.T.). Entrance into the program is open only to certified teachers with a minimum of one year of successful teaching experience. (Non-certified teachers will be required to take Education 486 — Student Teaching, Advanced Course, or equivalent.) Requirements for the M.A.T. degree are the following:

Physical Science 501, 502, 503	9 credits
Education 427, 501, and 525 or 526 or 540	9 credits
Mathematics at upper division or graduate level	6 credits
Chemistry, Physical Science, and Physics at 400 level or above (must include both Chemistry and Physics)	18 credits
Elective at the 500 level	3 credits
Total	45 credits

A maximum of six credits of approved 300 level

\*The M.A.T. program will be inactive in 1972-73 until sufficient demand is received.

No geology!

Chemistry or Physics may be substituted for the required 400 level courses. A written examination and an oral examination must be successfully completed on the major subjects (mathematics, chemistry, physics). No thesis is required. No foreign language is required. A grade of B or above must be obtained in all work presented toward the M.A.T. degree. Further general requirements regarding residence, time limitations and graduation fees are specified under the "Graduate School" section of this catalog.

### Courses

- 101, 102 SURVEY OF PHYSICAL SCIENCE (5) (5)  
Fundamentals of physics, chemistry, and geology taught in the context of contemporary problems such as nuclear energy in war and peace, pollution and ecology, transportation (surface, air, space), cybernetics and control systems, biochemical basis of life.
- 135 DESCRIPTIVE ASTRONOMY (5)  
General introduction to astronomy including methods of astronomical observation and measurement, the solar system, classification of the stars, the Milky Way galaxy and extragalactic phenomena.
- 320 MAN AND SPACE (5)  
An interdisciplinary course in the space sciences. Emphasis will be placed on the relationship between man and space. In addition to the general scientific information pertaining to space exploration, the course will also discuss such aspects as the impact of space activities on politics and economics. Past, present and proposed future space programs will be reviewed. The course is open to all interested students.
- 320 PHYSICAL SCIENCE AND SOCIETY (3)  
Introduction to those contemporary topics in the physical sciences which have significant technological and social implications as well as the present social structure and environment of the physical sciences. *Designed primarily for non-science majors. Students having already taken 101, 102 are not excluded from 320.*
- 329 SCIENCE FICTION  
Interdisciplinary survey of science fiction and science. Films will be shown and novels discussed along with a non-calculus discussion of basic physical concepts.
- 401, 402, 403 FUNDAMENTALS OF PHYSICAL SCIENCE (3-5) (3-5) (3-5)  
General study of the fundamentals of astronomy, chemistry, geology and physics. *Offered only in special programs and institutes.*
- 441 SPECIAL TOPICS IN PHYSICAL SCIENCE (3-5)  
Seminars on selected topics, current problems and research areas in the physical sciences.
- 471 OCEANOGRAPHY (5)  
*Prerequisites: Physics 103 or 203H, Math. 127 or permission.* Physics and chemistry of sea water, hydrodynamics, ocean currents, ocean waves, tides, turbulence, circulation, and stratification.
- 472 GEOPHYSICS (5)  
*Prerequisites: Physics 103 or 203H, Math. 127 or permission.* Thermodynamics of the earth, gravitational field of earth, seismology, geomagnetism, glaciology.
- 473 ATMOSPHERIC SCIENCE (5)  
*Prerequisites: Physics 103 or 203H, Math. 127 or permission.* Composition and structure of the atmosphere. Radiative and convective processes. Atmospheric dynamics and distribution. Cloud physics. Introduction to upper atmosphere properties and processes. Current developments.

501, 502, 503 PHYSICAL SCIENCE (3) (3) (3)  
Fundamentals of physics and chemistry.  
*Offered only in special programs and institutes.*

## Physics

(See also Physical Science)

Professors: ROGER H. ANDERSON, O. KARL KRIENKE, *Acting Chairman*  
Associate Professors: JAMES H. CRICHTON, ROBERT C. HUGHSON, HUGH NUTLEY, DAVID U. L. YU

Worldwide social, economic and political changes have resulted from progress in physics. Recent developments in this field offer even more startling changes in the future. A major objective of this department is that students attain a knowledge of the fundamentals of physics and of the contribution of physics to our contemporary culture.

Students desiring to major in physics may choose from several undergraduate options, described below. Graduate options providing majors for the master of arts in teaching degree and the master of science degree are also offered.

### UNDERGRADUATE PROGRAM

1. *Requirements for Major in Physics.* The traditional liberal arts major in physics provides maximum opportunity for obtaining a broad background in liberal arts subjects while completing a major in physics. A total of forty-five credits in the department is required. At least twenty-five of these credits must be upper division credits in the department (Physical Science 471, 472, 473, also applicable). A maximum of twenty credits of general physics, including laboratories, may be applied toward the major. Physics 311, 312, 313 and 204H are required. The candidate must complete Chemistry 111, 112, or equivalent, and five more hours of chemistry, and mathematics through Mathematics 227 or equivalent. Students expecting to continue the study of physics in graduate

school should complete at least sixty credits in physics, including courses 351, 360, 391, 421, 422, 424, 452, 453 and Mathematics 325, 326 with a grade point average of 3.00 or above. A reading knowledge of French, German or Russian is desirable. English 301, Advanced Expository Writing, is recommended. These studies apply toward the bachelor of science degree.

2. *Requirements of Major in Engineering Science (Physics Emphasis).* (See "Engineering Science" section of this catalog.)

3. *Honors Program.* Superior students of demonstrated ability in science are eligible for placement in honors courses. Honors courses provided by the department are 201H, 202H, 203H, 204H General Physics Honors; 341H, 342H Independent Study in Physics, Honors; 497H, 498H Undergraduate Research; and 499H Undergraduate Thesis. Honors students expecting to continue the study of physics in graduate school should complete the courses listed in paragraph 1 above in addition to independent study and undergraduate research. A reading knowledge of French, German or Russian is desirable. English 301, Advanced Expository Writing, is recommended. These studies apply toward the bachelor of science degree.

#### *Preparation for Graduate Work in Environmental Physical Sciences*

The lists of courses in this section are recommended for preparation for the respective fields of environmental science. In each case there are sufficient physics, chemistry, and mathematics courses to satisfy the requirements for a B.S. degree in physics.

Such a preparation for the environmental physical sciences is to be highly recommended in that a student benefits from an in-depth study of physics which is the most basic of all sciences. The student then has the basic scientific instruction from which he can branch out into more applied areas of the environmental sciences.

#### *Pre-Oceanography*

Biology — 201, 202, 310

Chemistry — 111, 112, 113, 351

Engineering — 326, 327, 328

Mathematics — 125, 126, 127, 225, 226, 461, 462

Physical Science — 471, 472, 473

Physics — 101, 102, 103 (or 201H, 202H, 203H), 204H, 360, 391

#### *Pre-Geophysics*

Chemistry — 111, 112, 351

Engineering — 326, 327, 328

Mathematics — 125, 126, 127, 225, 226, 227, 325, 326

Physical Science — 471, 472, 473

Physics — 101, 102, 103 (or 201H, 202H, 203H), 204H, 360, 391, 421, 452, 453

#### *Pre-Atmospheric Science*

Chemistry — 111, 112, 351

Engineering — 326, 327, 328

Mathematics — 125, 126, 127, 225, 226, 227

Physical Science — 471, 472, 473

Physics — 101, 102, 103 (or 201H, 202H, 203H), 204H, 360, 391, 421, 452

### GRADUATE PROGRAMS\*

1. *Graduate Major in Physics.* The graduate programs in physics consist of two programs leading to the Master of Science (M.S.) degree. One of these requires original research and a thesis; the other does not.

The Master of Science (non-thesis) program provides for a broad coverage of nearly all the main areas of physics with a general introduction to research methods.

An examination in one foreign language chosen from *French, German and Russian* must be passed for the Master of Science degree. Also, both an oral and written examination over graduate physics subject matter must be passed. A minimum of 36 quarter credits must be taken subsequent to the bachelor's degree. *A grade of B or above must be obtained in all physics courses presented toward the M.S. degree.* Further general requirements regarding

\*Graduate programs to be inactive during 1972-73 until sufficient demand is received.

residence, time limitations, etc. are specified in the "Graduate School" section of this catalog.

Master of Science (Non-thesis)—Course requirements include 6 credits in upper division or graduate mathematics courses. The following physics courses are required (if they or their equivalent have not been taken previously): 421, 422, 424, 452, 505, 511, 513, 514 or 521 and 540 (3 credits).

If the number of these course requirements satisfied prior to entering the M.S. program is such that the total number of remaining required credits including mathematics is less than 36, additional courses from among Physics 506, 521 and various electives approved by the physics department must be taken.

Master of Science (Thesis)—Course requirements include 3 credits of upper division or graduate mathematics courses. The following physics courses are required (if they or their equivalent have not been taken previously): 421, 422, 424 or 453, 452, 505, 513, 514 or 521, 540 (3 credits), 595 (3 credits) and 597, 598 (6 credits). If the number of these course requirements satisfied prior to entering the M.S. program is such that the total number of remaining required credits including mathematics is less than 36, additional courses from among Physics 506, 521 and various electives approved by the physics department must be taken.

2. *Graduate Major in Physical Science.* (See "Physical Science" section of this catalog.)

### Courses

101, 102, 103 GENERAL PHYSICS (5) (4) (4)

101 prerequisite to 102, 102 prerequisite to 103.

General introduction to physics. Mechanics, sound, heat, light, electricity, atomic, molecular and nuclear physics. 112, 113 must be taken concurrently.

112, 113 GENERAL PHYSICS LABORATORY (1) (1)

Laboratory courses must be taken concurrently with 102 and 103 respectively, to receive credit.

140 PHYSICS OF SOUND (5)

Fundamentals of simple harmonic motion, nature of sound, transmission and reception of sound, pitch, quality, loudness, musical intervals, diatonic, equal tempered scales, musical instruments, acoustics of instruments, acoustics of buildings, discussion of modern research in sound and acoustics. Four lecture periods and one double laboratory period each week.

170 HEALTH SCIENCES PHYSICS (5)

Introductory course for nursing and home-economics students. Emphasis upon application of physics in hospital and home. Four lecture periods, one two-hour laboratory period each week.

what is phys 381?

180, 380 PHOTOGRAPHY (5 quarter, 3 Inter-term)

Prerequisites: Physics 180 or permission prerequisite to 380.

Basic principles and equipment of photography, elements of composition and selected special techniques, practical application of fundamentals. Student ownership of camera preferred, but not mandatory; students pay for consumables used except basic developers and hypo. Physics 380 does not apply to physics major.

201H, 202H, 203H, 204H GENERAL PHYSICS, HONORS (5) (4) (4) (5)

Prerequisites: 201H to 202H, 202H to 203H, 203H or 103 plus permission of department to 204H. Mathematics 125 is prerequisite to, or must be taken concurrently with, 201H, etc. Permission of department required for 201H.

Introduction to physics using calculus. Mechanics, wave motion and sound, heat, electricity and magnetism, light, atomic and nuclear physics. 212H and 213H must be taken concurrently with 202H and 203H respectively.

212H, 213H GENERAL PHYSICS LABORATORY, HONORS (1) (1)

212H and 213H must be taken concurrently with 202H and 203H respectively.

311, 312, 313 ADVANCED PHYSICS LABORATORY (2) (2) (2)

Prerequisite: Physics 204H or equivalent, or concurrent with 204H.

Integrated advanced laboratory course including experiments in mechanics, optics, solid state physics, atomic physics and nuclear physics.

326 ELECTRIC CIRCUITS (5)

Prerequisites: Physics 103, or 203H or Engr. Sci. 112; Math. 127. (See Engineering Science 326 for description.)

327, 328 ELECTRONIC INSTRUMENTS AND ELECTRONICS (5) (5)

Prerequisites: Physics 326, 360 or permission.

(See Engineering Science 327, 328 for description.)

340 EXPERIMENTAL PHYSICS (2)

Prerequisite: Fifteen credits in physics with a minimum grade score of 3.00.

Advanced experiments and problems not discussed in the regular curriculum. Technical paper written on result of experimental problem.

341H, 342H INDEPENDENT STUDY IN PHYSICS, HONORS (1-3) (1-3)

Prerequisites: Physics 204H and a minimum grade point average of 3.00 in all physics courses.

Advanced problems in physics. Independent study under direction of staff member. Weekly seminars, discussions. Technical paper written on result of independent study. Enrollment constitutes recognition as honors student by the department.

351 THERMODYNAMICS (4)

Prerequisites: Physics 103 or 203H, Chemistry 112 or 223H, Math. 127 or concurrent with Math. 127.

Equilibrium and non-equilibrium properties of gases, liquids and solids from thermodynamic processes. Kinetic theory of gases. (See also Chemistry 351.)

360 ELECTRICITY AND MAGNETISM (5)

Prerequisites: Physics 204H, Math. 227 or equivalent.

General principles of electricity and magnetism and their application.

381 MATHEMATICAL PHYSICS (5)

Prerequisite: Physics 360.

Partial differential equation of physics, boundary conditions, orthogonal functions, completeness, application to electrostatic and electrodynamic problems and to quantum mechanics.



391 MECHANICS (5)

Prerequisites: Physics 204H, Math. 227 or equivalent.  
Mechanics of translation and rotation, elasticity, harmonic motion and vibration.

410 READINGS IN PHYSICS (3)

Prerequisites: Upper division standing and a minimum grade point average of 3.00 in all physics courses.  
Readings from selected topics in physical science. Designed to develop a wide acquaintance with the literature of physics and closely related disciplines.

421, 422 ATOMIC PHYSICS AND QUANTUM MECHANICS (5) (5) 1973-74

Prerequisites: Physics 204H, Math. 227 or equivalent.  
Basic quantum mechanics, fundamental atomic and molecular physics, and quantum statistics.

424 NUCLEAR PHYSICS (4) 1973-74

Prerequisite: Physics 421.  
Nuclear, high energy and particle physics.

441 SPECIAL TOPICS IN PHYSICS (3)

Seminar on current problems and research areas in physics.

452, 453 PROPERTIES OF MATTER (5) (5)

Prerequisite: Physics or Chemistry 351.  
Equilibrium and nonequilibrium statistical properties of gases, liquids, and solids. Structural, dynamical, and thermal properties of crystal lattices. Electrons in crystal lattices and band theory. Quantum distributions applied to electrons in solids, phonons, liquid helium and to radiation. Electrical, thermal, magnetic and optical properties of solids.

463 OPTICS (5) 1973-74

Prerequisite: Physics 360.  
Theories and phenomena of light and optical instruments. Emphasis on physical rather than on geometrical optics.

497H, 498H UNDERGRADUATE RESEARCH (2) (2)

Prerequisite: Thirty credits in Physics with minimum grade average of 3.50 and permission of department.  
Supervised independent research on undergraduate level. Thesis written on result of research. For senior physics majors only. Enrollment constitutes recognition as honors student by the department.

499H UNDERGRADUATE THESIS (2)

Prerequisites: Physics 498H and permission of department.  
Thesis on result of previous undergraduate research or independent study. Enrollment constitutes recognition as honors student by the department.

Graduate Courses in Physics\*

505 CLASSICAL MECHANICS (4)

\*Graduate Courses not offered until sufficient demand is received.

506 STATISTICAL MECHANICS (4)

511 EXPERIMENTAL METHODS IN PHYSICS RESEARCH (3)  
Lecture and laboratory experience covering a broad range of methods of current physics research. Technical report writing included.

513, 514 ELECTRICITY AND MAGNETISM (4) (4)

521 QUANTUM MECHANICS (4)  
Prerequisite: Physics 422 or equivalent.

540 GRADUATE SEMINAR (1)

595 GRADUATE RESEARCH IN PHYSICS (3-9)

May be repeated.

597, 598, 599 THESIS (3) (3) (3)

Admission to candidacy prerequisite to Physics 598.

## Political Science

Professor: F. WESLEY WALLS, Chairman

Associate Professor: C. Y. JESSE CHANG

Instructor: ROBERT SNIDER

Part-time Lecturer: ROBERT GUNTER

The Political Science curriculum is designed to increase the student's understanding of man, particularly as he acts in a political context. The course of study leading to a major confronts the student with those enduring questions which have agitated the minds of men over the centuries, particularly as they have been articulated in the rich tradition of Western political thought. Those questions germane to an analysis of contemporary political systems and their interactions are particularly emphasized.

By combining a respect for the wisdom of the old with the creativity of the contemporary, the Department offers a training which it considers an excellent preparation for a meaningful and constructive personal life and for useful citizenship. Since politics is everyone's business, all students are encouraged to take some courses in political science. A major in political science is especially useful for students interested in graduate study in political science or in law, or for those deeply interested in government and public affairs. (For other professional and pre-professional programs see p. 52.)

### REQUIREMENTS FOR A MAJOR

Forty-five hours in Political Science are required, thirty of which must be upper division. Course requirements within the major are selected by the student through consultation with the adviser.

### Courses

110 INTRODUCTION TO POLITICAL SCIENCE (5)

A survey of the major issues which have existed for man in relation to government, scope and method by which the issues have been approached, history and traditions of Political Science as a discipline.

120 AMERICAN GOVERNMENT (5)

An analysis of the American political system, historical background, practices, procedures and issues of current American politics.

214 STATISTICAL METHODS (5)

See Psychology 214.  
Description of data in terms of averages, measures of variability, and measures of relationship; problems of prediction, frequency distribution and elementary sampling theory.

220 MODERN POLITICAL SYSTEMS (Comparative Government) (5)

Democratic governments compared and contrasted with totalitarian governments. Particular attention is devoted to the governments of Great Britain, France and Russia.

230 INTERNATIONAL RELATIONS (5) Not offered 1972-73

An introduction to the international political system and an orientation to a better understanding of the kind of world in which we live. Emphasis is placed on current important issues and on the twentieth century problem of war and peace.

238 AMERICAN FOREIGN POLICY (5)

Analysis of problems facing the United States in the twentieth century. Present involvements and policies of the United States.

315 RELATION OF CHURCH AND STATE IN AMERICAN SOCIETY (3)

Historical and philosophical considerations leading to the separation of church and state in America. An examination of the relationship of church and state, particularly as defined through Supreme Court decisions.

336 INTERNATIONAL ORGANIZATION AND ADMINISTRATION (5) Not offered 1972-73

Survey of the development of international organizations with particular attention to the League of Nations and the United Nations. Consideration is given both to theory and practice.

337 MODERN RUSSIA (5)

See History 337.  
Social and political history; special attention to the revolutionary movement and the establishment of the Soviet regime.

339 HISTORY OF MARXISM (5)

(History 339.)  
The social, political and philosophical assumption of Karl Marx and his successors, particularly Lenin, Stalin and Mao.

350 POLITICAL PARTIES AND ELECTIONS (5)

Growth of the American party system, political campaigns, election methods and practices.

351 INTRODUCTION TO RESEARCH METHODS (5)

See Sociology 351.  
Development of social research; nature of scientific inquiry and basic methods and techniques; examination of representative sociological and political studies from the standpoint of methodology; the formation and completion of an empirical study.

364 STATE AND LOCAL GOVERNMENT (5)

Structure, function and procedures in state and local government. Particular attention is given to the political system in the state of Washington.

370 PUBLIC ADMINISTRATION AND JUSTICE (5)

The art and practices of administration in government; organization and dynamics of administering public policies; an attempt is made to evaluate the achievement of justice in specific case studies.

375 AMERICAN FOREIGN RELATIONS—LATIN AMERICA (5)

See History 375.  
Survey of the political, social and economic development of Latin America since the period of independence.

389 THE FAR EAST IN THE MODERN WORLD (5)

The Western powers in China, India, Japan and Southeast Asia; the Far East in world politics.

390 INTRODUCTION TO CHINA (5)

Inquires into the historical background of China and the cultural, philosophical and religious fabric of its society; survey of political relations between China and the West from the middle nineteenth century to the present.

442 HISTORY OF POLITICAL THOUGHT (5)

Major political concepts from Plato to Hobbes.

444 HISTORY OF POLITICAL THOUGHT (5)

Major political concepts from Locke to the present.

446 AMERICAN POLITICAL THOUGHT (5)

Political concepts and ideals from the American Revolution to the present.

448 AMERICAN CONSTITUTIONAL LAW (5)

Analysis of the American government by means of legal case studies; nature of separation of powers, federalism, taxation, due process, commerce, civil liberties.

480 POLITICAL INTERNSHIPS (2-10)

Opportunities are provided for practical experience in political situations—state legislature, administrative agencies, state and local government. Available by permission and through designed program.

490 INDIVIDUAL STUDY (2-5)

Prerequisite: At least 20 credits in the department and by permission.  
Directed readings or other forms of individual study available to majors in the department. Designed to develop a wide acquaintance with the literature or to provide an experience not otherwise covered by the student's program in the department.

## Psychology

Professors: KEITH BELL, MYRTHALENE C. THOMPSON,  
Acting Chairman

Associate Professor: DONALD STEVENS

Assistant Professor: ROBERT LARSON

Part-time Lecturers: PHILIP ASHTON, RAY MILLER,  
PHILIP WHITMARSH

Psychology is the scientific study of human behavior that introduces the student to an important problem of modern man: how to understand his own experiences and behavior. The emphasis is primarily on the study of the individual and processes like learning, perception, motivation, retention, and emotion with a focus on how these are related to the fulfillment of God-given potentialities.

The undergraduate curriculum is designed to prepare the student for admission to graduate study in Psychology or to provide the background necessary for effective work with human beings in service-oriented occupations. Graduate study is necessary for a student to become a professional psychologist. Professional areas of Psychology include: Experimental Psychology, Physiological Psychology, Clinical Psychology, Counseling Psychology, Social-Personality Psychology, Developmental Psychology, School Psychology, Educational Psychology and Industrial Psychology.

## REQUIREMENTS FOR A MAJOR

Forty-five credits in the department, 23 of which must be upper division. Courses must include: 100, 214, 350 and 421. In addition, elect 15 credits from the following list of courses:

- Psych. 305 Deviant Behavior
- Psych. 306 Developmental Psychology
- Psych. 308 Perception and Motivation
- Psych. 310 Psychology of Learning
- Psych. 314 Experimental Psychology
- Psych. 447 Measurements in Psychology

General Psychology is prerequisite to all other courses in the department. For psychology majors, it is suggested that Biology 229 and 230 be completed as preparation in science.

### Courses

- 100 GENERAL PSYCHOLOGY (5)  
A survey of the scientific study of behavior with emphasis on methods used to study such processes as learning, perception, retention, motivation, and cognition. (Prerequisite: for all other courses in the department.)
- 101 PSYCHOLOGY OF ADJUSTMENT (5)  
Patterns of adjustment utilized by humans in coping with conditions of life requiring behavioral change.
- 214 (414) STATISTICAL METHODS (5)  
Descriptions of data in terms of averages, measure of variability, and measures of relationship; problems of experimental design, sampling theory, and inferential statistics. Basic concepts and skills for computer processing.
- 305 DEVIANT BEHAVIOR (5)  
Prerequisite: 10 credits in Psychology.  
Critical analysis of abnormal behavior with special reference to modern methods of therapy.
- 306 DEVELOPMENTAL PSYCHOLOGY (5)  
Developmental processes of the human organism beginning with the pre-natal period and continuing through adolescence.
- 308 PERCEPTION AND MOTIVATION (5)  
A review of significant experimental work on the perceptual process and motivation.
- 310 PSYCHOLOGY OF LEARNING (5)  
Experimental research and basic theories in the psychology of learning with emphasis on the study of human learning.
- 314 EXPERIMENTAL PSYCHOLOGY (5)  
Prerequisite: Psych. 214.  
Experimental design with focus on multivariate research techniques and statistical analyses. (Laboratory experience with two-hour lab. periods twice a week and three hours of lecture.)
- 315 INDIVIDUAL RESEARCH PROJECTS (3)  
(Experimental Psychology II)  
Prerequisite: Psych. 314.  
Program focusing on research studies designed by individual students. Staff members will provide assistance in the design, collection of data and analyses of results.
- 350 HISTORY AND SYSTEMS OF PSYCHOLOGY (5)  
Development of psychological concepts from the early Greeks to the present time with emphasis on contemporary theories.
- 406 MENTAL HYGIENE (3)  
(See Education 406 for description.)

- 407 PSYCHOLOGY OF ADOLESCENCE (5)  
Survey of the physical and personality development of the adolescent.
- 421 PHYSIOLOGICAL PSYCHOLOGY (5)  
The organization and functions of the nervous system as related to the physiological events that underlie behavior.
- 438 COUNSELING, THEORY AND PRACTICE (5)  
Major theories and techniques of counseling and psychotherapy with emphasis on effective interpersonal relationships; practical application through use of video tape recordings, role playing, and selected case studies.
- 440 SOCIAL PSYCHOLOGY (5)  
(See Sociology 440 for description.)
- 443 PERSONALITY THEORIES (3)  
Comparison of philosophical and empirical bases for the major theories of personality that have had an impact on current views of man.
- 444 PSYCHOLOGY OF THE EXCEPTIONAL CHILD (3)  
(See Education 444 for description.)
- 447 MEASUREMENTS IN PSYCHOLOGY (5)  
Prerequisite: Psych. 214(414) or permission.  
Survey of theory and techniques of various measurements employed in psychology. Examination of scholastic and other aptitude tests, personality, and interest inventories, projective techniques, and non-test procedures and their application to the study of individuals and groups.
- 490 THE MALADJUSTED CHILD (3)  
(See Education 490 for description.)
- 492 READINGS IN PSYCHOLOGY (2)  
Prerequisite: At least 15 credits of upper division "B" grade work in the Department and permission of instructor.  
Reading in special interest areas under supervision of staff members.
- 493, 494 DEPARTMENTAL PRACTICUM (2)  
Prerequisite: Psych. 314 and permission of instructor.  
Opportunities provided for practical experience in explaining experimental designs used in behavioral research and interpreting the results of behavioral studies.

## Religion

- Professors: JOSEPH L. DAVIS, E. WALTER HELSEL,  
WALTER H. JOHNSON, FRANK J. KLINE, *Chairman*;  
DONALD McNICHOLS, RAYMOND J. WELLS,  
WINIFRED E. WETER  
Associate Professor: ALICE REID  
Assistant Professors: FRANK LEDDISURE,  
WAYNE McCOWN  
Part-time Lecturers: ROBERT D. BENNETT, LEWIS E.  
HYSLIP, HENRY T. LITTLEJOHN, DONALD I.  
MARDOCK, RALPH G. TURNBULL

For information concerning Majors in Religion and Graduate Study, see under "School of Religion." Courses numbered 500 and above are open *only* to graduate students.

### Courses

- 495 INTERNSHIP OR DIRECTED STUDY (1-3)  
Prerequisite: Departmental approval, "B" grade average required.
- 497 INDEPENDENT STUDY (1-3)  
Prerequisite: Directed readings or research upon permission of the Dean of the School of Religion and at least 15 credits of "B" grade work.
- 595 GRADUATE RESEARCH (3)
- 596 GRADUATE READINGS (1-3)  
(Only 3 READINGS or RESEARCH credits allowed on Master's Degree.)

### I. BIBLICAL LITERATURE FIELD

Only these courses listed below under "BIBLICAL LITERATURE FIELD" may be used to meet the General Education requirement in Biblical Literature.

#### A. Introduction to Biblical Literature

- 101 INTRODUCTION TO OLD TESTAMENT LITERATURE (5)  
A study of the literature and history of the Old Testament in the light of its geographical, political and cultural settings. Inductive study of selected literary units. Major themes, text and canon.
- 102 INTRODUCTION TO NEW TESTAMENT LITERATURE (5)  
Same topics as under Course 101, except for the New Testament.
- 387 THE BIBLE AS LITERATURE (3)  
(See English 387 for description.)

#### B. Historical Sources of the Christian Faith

- 202 (402) NEW TESTAMENT BACKGROUNDS (3)  
Survey of Bible history from the fall of Jerusalem in 586 B.C. to the fall of Jerusalem in 70 A.D.; religion, culture and society of the New Testament world. Credit applies to either Biblical or Historical field.
- 205 BIBLICAL LITERATURE AND A CHRISTIAN WORLDVIEW (3)  
The idea and Biblical history of revelation as it relates to a Christian worldview. A team of teachers cooperates.
- 310 ARCHAEOLOGY AND HISTORY OF THE OLD TESTAMENT (5)  
Prerequisite: History 210 and Religion 101 or their equivalents.  
Archaeology of Bible lands and the bearing of archaeological discoveries on the Biblical record.
- 313 LIFE AND TEACHINGS OF CHRIST (5)  
Synthetic study of the life of Christ as viewed from the four gospels; emphasis on Jesus' teaching about God, man, righteousness, the Kingdom and prayer.
- 383 BIBLICAL BASIS OF THE CHRISTIAN MISSION (5)  
(See 383 under "The Christian Mission" for description.)
- 501 GRADUATE SEMINAR: OLD TESTAMENT INTRODUCTION (5)  
Critical study of formation of the Old Testament canon; authorship and date of each book.
- 502 GRADUATE SEMINAR: NEW TESTAMENT STUDIES (5)  
Current issues in criticism, interpretation, history and theology considered.
- 504 PARABLES OF JESUS (3)  
Structure, classification and interpretation; inductive approach.

### C. Biblical Book Studies

- 201 POETIC-DEVOTIONAL LITERATURE—THE PSALMS (3)  
Survey of Hebrew poetry; general knowledge of the Book of Psalms, its structure and content. Emphasis on the study of individual Psalms in their respective group.
- 204 STUDIES IN THE GOSPEL OF LUKE (3)  
Form and content, including the Person of Christ, His life and teachings.
- 303 GOSPEL OF MARK (3)  
For upper division students only.
- 304 BOOK OF ACTS (3)  
For upper division students only.
- 306 THE REVELATION (3)  
Historical background and detailed examination of each chapter; current interpretations.
- 308 (428) ROMANS (3)  
(See 308/428 under "Biblical Theology" for description.)
- 309 EPISTLES OF JOHN, JUDE, II PETER (3)  
Detailed study. Date and authorship; emphasis on message of each book.
- 312 MINOR PROPHETS (BIBLICAL LITERATURE OF PROTEST) (3)  
The prophets, their ministry and message in the light of their day; their message for the present day.
- 314 (514) HEBREWS AND I PETER (3)  
Application of several methodologies to interpretation of Hebrews; investigation of the major conceptions in and distinctive features of its theology. Participating graduate students also study I Peter, making comparison of the two epistles in regard to character and theology. Special attention given to the Biblical relations between doctrinal ideas and their practical application.
- 403 ISAIAH (3)  
Isaiah, the man and his message; emphasis on Messianic theme of the book.
- 404 GOSPEL OF JOHN (3)  
A study in The Identity of Jesus the Christ and in the problem of divine-human communication.
- 406 PAULINE EPISTLES I (3)  
The earlier or travel epistles (except Romans); chronological order, historical background and vital message of each. Special stress on Christian unity, source of authority, glossolalia.
- 407 PAULINE EPISTLES II (3)  
Detailed study of Ephesians, Philippians, Colossians and Philemon.
- Greek 307, 308, 309 NEW TESTAMENT GREEK (2) (2) (2)
- Greek 401, 402, 403 ADVANCED NEW TESTAMENT GREEK (2) (2) (2)  
*Not offered 1972-73*  
All students who use Greek for basic Biblical Literature requirement will be expected to complete 8 hours in other Biblical Literature courses.
- 503 JEREMIAH (3)  
Survey of Hebrew History as a whole in relation to the Babylonian captivity; Jeremiah's personal experiences, teachings, statesmanship and his message for today.
- 505 EPISTLES TO THE GALATIANS, AND JAMES (3)  
Detailed exegesis of Galatians with related historical and theological studies as compared with James.

## II. HISTORICAL FIELD

### A. Church History

- 340 HISTORY OF THE CHRISTIAN CHURCH (5)  
Comprehensive survey of the Christian Church from Apostolic days to the twentieth century. (See History 340 listing also.)
- 413 RENAISSANCE AND REFORMATION (5)  
(See History 413 for description.)
- 492 ECUMENISM (3)  
(See 492 under "The Christian Mission" for description.)
- 441 (541) HISTORICAL THEOLOGY (5) (On demand)  
Progressive development of Christian thought in its ecclesiastical setting.
- 280 THE MISSIONARY EXPANSION OF THE CHRISTIAN CHURCHES (5)  
A study of some landmarks of Church History with emphasis upon the missionary growth and methods of development of the Christian Church.
- 382 HISTORY OF CHRISTIAN ART (3)  
(See Art 382 for description.)
- 460 PHILOSOPHY AND HISTORY OF CHRISTIAN EDUCATION (3)  
(See 460 under "Practical Field" for description.)

### B. General Religious History

(See The Christian Mission V. B. for listings)

- 580 GRADUATE SEMINAR IN THE LIFE AND WORK OF THE YOUNGER CHURCHES (3) (On demand)  
Founding, growth, present life and task of churches on the mission field; their relationship to their national scene, to one another, to the older churches and to the world mission of the Church.

## III. THEOLOGICAL FIELD

### A. Biblical Theology

- 220 UNDERSTANDING THE CHRISTIAN FAITH (5)  
Essentials of Christianity, considered in the light of thinking about God, man, the Bible, Jesus Christ and morals in today's world.
- 308 (428) ROMANS (3)  
Prerequisite: Six credits of Bible study.  
Exhaustive analysis of the argument; critical and historical investigation; a topical and exegetical study of "the greatest gospel of them all."
- 322 (422) DOCTRINE OF THE HOLY SPIRIT (5)  
Biblical, historical and contemporary ideas and experiences brought to bear on an understanding of the Person and work of the Holy Spirit.
- 420 BIBLICAL THEOLOGY: OLD TESTAMENT (5)  
Careful introduction to the discipline. Outline of key theological conceptions of the Old Testament: God—his Person, work and word; man—his nature and need; revelation and response. Special attention to relations of the Old Testament to the New, and its use in the church today.
- 421 BIBLICAL THEOLOGY: NEW TESTAMENT (5)  
Utilization of the discipline in investigation of key theological conceptions of the New Testament: The Person, death and resurrection of Jesus Christ; the atonement, gospel, Spirit, faith, Church and sacraments. Students prepare research papers.
- 381 (520) THEOLOGY AND ETHICS TODAY (3)  
A confrontation between Biblical faith and current issues: select ethical problems, representative of deep dilemmas for persons in contemporary society, examined in theological perspective.

Participating graduate students give special attention to developing a rational and workable methodology for the task.

### B. Philosophical Theology

- 320 PHILOSOPHY OF RELIGION (3)  
(See Philosophy 320 for description.)
- 339 THEISM (3)  
Prerequisite: Philosophy 101 or equivalent.  
(See Philosophy 339 for description.)
- 410 EXISTENTIALISM (3)  
(See Philosophy 410 for description.)
- 415 EVANGELICAL PHILOSOPHY (3) Not offered 1972-73  
(See Philosophy 415 for description.)
- 423 PHILOSOPHICAL THEOLOGY (3)  
(See Philosophy 423 for description.)

## IV. PRACTICAL FIELD

### A. Christian Life

- 164 PERSONAL EVANGELISM AND GROUP DYNAMICS (3)  
Preparation for personal evangelism; methodology and use of the Bible; emphasis on group dynamics.
- 205 BIBLICAL LITERATURE AND A CHRISTIAN WORLDVIEW (3)  
(See 205 under "Historical Sources of the Christian Faith" for description.)
- 322 (422) DOCTRINE OF THE HOLY SPIRIT (5) Sum. (3)  
(See 322 (422) under "Biblical Theology" for description.)
- 429 (529) MORAL THEOLOGY (3)  
Emphasis on the cultivation and discipline of the Christian spiritual life.
- 455, 456, 457 CHRISTIAN LEADERSHIP IN THE DEVELOPMENT OF YOUTH MINISTRIES (2) (2) (2)  
A unit course. (See 455, 456, 457 under "Christian Education" for description.)

### B. Christian Worship

- 347 INTERPRETIVE READINGS OF THE BIBLE (3)  
(See Speech 347 for description.)
- 465 (565) BIBLICAL PREACHING AND AMERICAN HERITAGE (3)  
Biblical Preaching and its impact upon our American Heritage and Culture.
- 466 (566) BIBLICAL PREACHING (3)  
Prerequisite: Speech 231 or equivalent.  
The Clinical approach; worthy examples of preaching from yesterday and today.
- 467 (567) CHRISTIAN WORSHIP (3)  
History and meaning; Old Testament background as related to the New Testament Church; various emphases within Protestantism.
- 468 (568) PREACHING-TEACHING RESOURCES (3)  
Aims, problems and opportunities and the literary and Biblical bases of an evangelical ministry, using the clinical approach.
- 470 WORKSHOP IN CHURCH MUSIC (2)
- 472 MUSIC IN THE CHURCH (3)  
(See Music 472 for description.)
- 563 INTRODUCTION TO GRADUATE RESEARCH (3)  
(See Education 501 for description.)
- 591 GRADUATE PROJECT (3)

- 592, 593 DEPARTMENTAL PAPERS (SUPPORTING THE GRADUATE RESEARCH PROJECT) (3) (3)

- 595 GRADUATE RESEARCH (3)

- 596 GRADUATE READINGS (1-3)  
(Only 3 READINGS and RESEARCH credits allowed on Master's Degree.)

- 597, 598, 599 THESIS (3) (3) (3)

### C. Christian Education

#### 1. Foundation of Christian Education

- 164 PERSONAL EVANGELISM AND GROUP DYNAMICS (3)  
(See 164 under "CHRISTIAN LIFE" for description.)
- 260 INTRODUCTION TO CHRISTIAN EDUCATION (3)  
Survey of the field of Christian Education; emphasis on dynamics, principles, methods and administration.

#### 2. Methods of Christian Education

(Prerequisite courses—164, 260)

- 361 AGE-GROUP MINISTRIES IN THE CHURCH (5)  
Prerequisite: Educ. 203, Psychological Foundations of Education (4); Educ. 205, Laboratory Experience (2) and Educ. 201, Creativity in Education (2).  
A study of age-group characteristics, needs and interests with emphasis on programming and unique teaching techniques for each group.

- 455, 456, 457 CHRISTIAN LEADERSHIP IN THE DEVELOPMENT OF YOUTH MINISTRIES (2) (2) (2)

A unit course. Must be taken all three quarters. Lectures, readings and field experience in different aspect of working with young people in local churches and in extra-church-ministries, such as Youth for Christ, Young Life, Campus Crusade, Inter-Varsity. The 3-term unit includes both content class work and community-service experience.

- 462 ORGANIZATION AND ADMINISTRATION (3)  
Development of the organizational structure in the local church as a means of achieving Biblical perspectives in Christian Education with emphasis on the principles of administrative responsibilities and the development of leadership in the local church.

- 469 CHRISTIAN EDUCATION IN CAMPING (3)  
Philosophy, objectives, organization and administration of a Christian camp. Laboratory experience.

- 480 RELIGION AND THE THEATRE (3)  
(See Speech 480 for description.)

#### 3. Theory of Christian Education

(Prerequisite courses—164, 260)

- 460 PHILOSOPHY AND HISTORY OF CHRISTIAN EDUCATION (3)  
Basic religious needs of the growing personality; their relation to provisions of the Christian Faith as reflected in Judeo-Christian beginnings and emphasized in needs today.
- 461 CONTEMPORARY TRENDS IN CHRISTIAN EDUCATION (3)  
Seminar designed to stimulate individual research, thought, and discovery of contemporary emphases in Christian Education.

## V. THE CHRISTIAN MISSION

### A. Theology of Christian Missions

- 180 INTRODUCTION TO THE CHRISTIAN MISSION (3)  
Introduction to the validity, motivation and Biblical basis of Christian missions, with emphasis upon the call, qualification and preparation of the missionary candidate. Introduction to the organization and administration of mission boards and their policies, the application and appointment of candidates, and some matters pertaining to one's first years in overseas service.
- 343 MODERN RELIGIOUS CULTS (5)  
Origin, progress and evaluation of Adventism, Christian Science, Mormonism, Spiritualism, Theosophy and other groups.
- 383 BIBLICAL BASIS OF THE CHRISTIAN MISSION (5)  
The theology of the Christian mission sought in study of pertinent Biblical passages and discussed with the aid of related textbooks.
- 392 INTRODUCTION TO ISLAMIC WORLD (3)  
(See History 392 for description.)
- 395 INTRODUCTION TO QUR'ANIC LITERATURE (3)  
Not offered 1972-73  
As a religion course, its concern is with the teaching of the Qur'an about God, man, ethics and eschatology. Study will be made of the interpretations made later by Muslim theologians in medieval times. Analysis will be made in how it deviates from Christian understanding of the same themes. Attention will be given also to the history of Muslim and Christian dialogue and polemic.
- 485 AN INTRODUCTION TO HINDUISM (3)  
Designed to give the serious student an opportunity to become acquainted with one of the world's greatest philosophic religious systems.

### B. History of Christian Missions

- 280 THE MISSIONARY EXPANSION OF THE CHRISTIAN CHURCHES (3) Not offered 1972-73  
A study of some landmarks of Church History with emphasis upon the missionary growth and methods of development of the Christian Church.
- 380 THE WORLD'S LIVING RELIGIONS (3)  
Major non-Christian religions: an introduction to their origin, development, nature, doctrine and literature.
- 393 MODERN NEAR EASTERN HISTORY (3)  
(See History 393 for description; or alternate 392.)
- 492 ECUMENISM (3)  
What is it? Why is it? Why are there so many denominations? Is there a place and a continuing reason for the pattern of denominations as we know it today? How does it affect an Evangelical stance?

### C. Method and the Christian Mission

- 490 PRINCIPLES AND STRATEGY OF THE CHRISTIAN MISSION (5)  
Historical as well as current practices and Church strategy in fulfilling the Christian Mission responsibility.
- 498 SEMINAR: THE CHRISTIAN APPROACH TO NON-CHRISTIAN RELIGIONS (3)  
Basic philosophy of missions; general and specific revelation, continuity, adaptation and approach.
- 580 GRADUATE SEMINAR IN THE LIFE AND WORK OF THE YOUNGER CHURCHES (3) (On demand)  
Founding, growth, present life and task of churches on the mission field; their relationship to their national scene, to one another, to the older churches and to the world mission of the Church.

#### D. Anthropology-Sociology and the Christian Mission

- 419 SOCIOLOGY OF RELIGION (5)  
(See Sociology 420 for description.)
- 425 CONTEMPORARY RELIGIOUS SCENE (3)  
(See Sociology 425 for description.)
- 432 RELIGIONS OF PRIMITIVE PEOPLES (3)  
(See Anthropology 432 for description.)
- 451 HEALTH PROBLEMS IN PRIMITIVE COMMUNITIES (5)  
(See Biology 451 for description.)
- 486 HISTORY OF ISLAMIC CULTURAL AND RELIGIOUS THOUGHT (3)

Development of Muslim religion and philosophy from the 7th to the 14th Centuries, including the historical context of the Middle East, North Africa and Islamic Spain and relations with Christian Europe.

## Sociology—Anthropology

Professors: GORDON E. COCHRANE, *Chairman*;

C. MELVIN FOREMAN

Assistant Professors: ROBERT LARSON,

KENNETH TOLLEFSON

Part-time Lecturer: TOM SINE

Courses in sociology and anthropology contribute to the student's understanding of his relations with others and of his cultural development; and through courses about specific human activity and behavior, a student becomes more efficient in understanding and carrying out anthropological and sociological work.

Graduate study usually follows undergraduate training in sociology, anthropology or social work. Many students, however, enter positions in applied fields immediately after graduation. For those who complete graduate training there is a wide choice of professional positions available, including: college professor, linguistics, government administrative work, research director, demographer, marriage counselor, city planner, social psychologist and criminologist. (For other professional and pre-professional programs see p. 52.)

### REQUIREMENTS FOR A MAJOR

For those students concentrating in sociology a

minimum of 45 hours is required within the department, including the following courses: 110, 160 or 214, 250, 365, 440, and 351. Twenty-five credits must be in the upper division.

For those who desire a sociology-anthropology major the following courses must be taken: 101, 110, 160 or 214, 250, and 351. Forty-five hours are required, with at least 25 of these being upper division.

For those who desire a sociology major with the social welfare sequence the following courses must be taken: 110, 160 or 214, 250, 440, 365, 376, 377 or 378, and 379. Forty-five hours are required, with at least 25 of these being upper division. The major must be supported by a minimum of five credits each from the fields of psychology, economics and political science.

### ANTHROPOLOGY

- 101 GENERAL ANTHROPOLOGY (5)  
A non-technical survey of the fields which make up anthropology. Physical anthropology, including evolution and race. Archaeology: the pre-history of man, including the earliest cultures and civilizations. Cultural anthropology: living and recent societies of the world, their languages and ways of life.
- 250 CULTURAL ANTHROPOLOGY (5)  
Analysis of the nature and universal aspects of human culture. The study of technological, economic, religious, social, political and linguistic dimensions with illustrations drawn from preliterate cultures of the world.
- 310 NORTH AMERICAN INDIAN CULTURES (3)  
Survey and analysis of the Indian cultures of North America before white contact. The impact of European contact upon the Indian cultures and the problems of contemporary Indians.
- 312 SOUTH AMERICAN INDIAN CULTURE (3)  
An introduction to the study of the South American Indians and the native cultures of the entire continent. Archaeological and linguistic problems are also considered. The four major culture areas of South America are examined and evaluated in terms of their component cultures.
- 315 PEOPLES AND CULTURES OF THE PACIFIC ISLANDS (3)  
Survey and analysis of the native cultures of the Oceanic Islands. The Polynesians, Micronesians and Melanesians will be studied. The impact of European missionaries, traders and government workers will be examined along with the "cargo cults" of Melanesia. Present day native societies.
- 360 INDIAN CULTURES OF THE PACIFIC NORTHWEST (3)  
Comparative analysis of the cultures of the Indians of the Northwest Coast before white contact; cultural change and contemporary Indian life.
- 432 ANTHROPOLOGY OF RELIGION (3)  
A survey of religious beliefs, practices, and functions in society. History of the study of religions and an orientation to the theoretical frameworks for interpreting them. Religious movements in pre-literate societies which result from contact with European societies.
- 445 CULTURE AND PERSONALITY (5)  
The structure of personality; processes and factors in its development in differing types of culture. Relationship between model

personality of a particular society and the institutions of that society. Effect of culture change upon personality.

- 450 CULTURAL DYNAMICS (5)  
Analysis of culture change, cultural evolution and other processes of culture with illustrations drawn from pre-literate societies. The impact of industrial societies upon pre-literate societies. Interrelations between cultural, social, psychological processes in dynamics of culture growth and change.
- 455 APPLIED ANTHROPOLOGY (3)  
Analysis of problems encountered in pre-literate cultures by missionaries, government workers, etc. Application of anthropology to social, economic and political problems.
- 490 READINGS IN SELECTED FIELDS (2)  
*Open only to undergraduate students, by permission, who have 15 upper division credits of "B" grade work in the department.*
- 491 RESEARCH IN SELECTED FIELDS (2)  
*Prerequisite: Same as for 490.*  
Development of social research; nature of scientific inquiry and basic methods and techniques; examinations of representative sociological and political studies from the standpoint of methodology.

### SOCIOLOGY

- 110 SURVEY OF SOCIOLOGY (5)  
Basic principles for understanding social relationships.
- 160 INTRODUCTION TO STATISTICS (5)  
(See Math. 160.)
- 214 SOCIAL STATISTICS (5)  
Methods and sources for quantitative investigation.
- 215 SOCIAL STRATIFICATION (5)  
Analysis of societal organization based on residence, occupation, community, class and race; power structure in the community; social mobility patterns.
- 240 GROUP BEHAVIOR (5)  
Socialization of the individual; social processes; interactions of persons in groups.
- 270 SURVEY OF CONTEMPORARY SOCIAL PROBLEMS (5)  
Analysis of processes of social and personal disorganization and reorganization in relation to poverty, crime, suicide, family disorganization, mental disorders and similar social problems.
- 334 LITERATURE OF BLACK AMERICA (3)  
(See English 334.)
- 340 COLLECTIVE BEHAVIOR (5)  
Study of relatively unstructured social situations. Includes the social psychology of various types of social movements; mobs, crowds, riots; public opinion and propaganda; social change.
- 351 INTRODUCTION TO RESEARCH METHODS (5)  
Development of social research; nature of scientific inquiry and basic methods and techniques; examination of representative sociological and political studies from the standpoint of methodology; the formulation and completion of an empirical study.
- 352 MARRIAGE AND THE FAMILY (5)  
The family as an institution and a mode for personal living; marital adjustment; parent-child relationships; changing family patterns; family disorganization and reorganization.
- 361 THE NEGRO IN AMERICAN HISTORY (3)  
(See History 361 for description.)
- 362 RACIAL AND ETHNIC MINORITIES (5)  
Nature of minority relations, methods and problems of group adjustment, and positions of different minority groups in American socio-cultural life.
- 365 URBAN SOCIETY (5)  
Contemporary urban society in the United States; growth of cities, spatial patterns, social relations and city planning.

- 371 CRIMINOLOGY (5)  
Individual and social factors in delinquency; history and methods of criminal justice. Field trips to local penal institutions.
- 402 CONTEMPORARY SOCIOLOGICAL THEORY (3)  
Major theoretical issues in sociology. Material is drawn from the chief recent theorists such as Weber, Simmel, Thomas, Merton and Parsons.
- 406 MOTIVATION AND CONTROL IN FORMAL ORGANIZATIONS (5)  
(See Economics & Business 406.)
- 420 SOCIOLOGY OF RELIGION (5)  
Relation of religion to social structure and social change; social factors in emergence of religious leaders and in growth of religious organization.
- 425 CONTEMPORARY RELIGIOUS SCENE (3)  
Focus on the non-institutionalized expression of religion in contemporary American Society. An exploration into the socio-cultural basis for present day interest in religion. Selected religious themes will be studied: salvation, eschatology. Opportunities will be given to analyze popular religious literature.
- 440 SOCIAL PSYCHOLOGY (5)  
Analysis of psychological processes in relation to social situations; how languages, perception, learning, thinking, motivation and attitudes determine and result from social interaction and group processes.
- 472 JUVENILE DELINQUENCY (3)  
The delinquent as a person and delinquency as a social problem; theories of delinquency causation, methods of correctional treatment and preventive programs.
- 492 SEMINAR ON SELECTED TOPICS (3-9)  
A seminar experience within a wide range of theoretical and research interests. Particular attention is directed to topics of contemporary and emerging interests, e.g.: dilemmas in law and justice, development of human resources, "Sociology Today," urban ethics, human ecology, social values.
- 495 READING IN SELECTED FIELDS (2) *Offered on demand*  
*Prerequisite: Permission and 15 upper division credits of "B" grade work in the department.*
- 496 RESEARCH IN SELECTED FIELDS (2)  
*Prerequisite: Same as for 495.*

### SOCIAL WORK

- 376 FIELD OF SOCIAL WORK (3)  
Survey of the various fields of social work practice and the historical development of social work as a profession. Visits to agencies will supply descriptions of the various professional phases of social work.
- 377 SOCIAL WELFARE THROUGH LEGISLATION (3)  
The development of social legislation regarding poor relief, social insurance and welfare services. The history, trends and current development of thought in social welfare.
- 378 SOCIAL SERVICES FOR CHILDREN AND YOUTH (3)  
Organization, administration and trends in public and private welfare programs relating to child development and protection.
- 379 METHODS OF SOCIAL WORK (3)  
Concepts and practices of social welfare methods: casework, group work and community organization; analysis of material from the field.
- 470 FIELD EXPERIENCE IN SOCIAL WORK (2)  
Observation, orientation and limited participation in operations of a private or public social welfare agency.

## Speech

Professor: PAUL F. L. ROSSER

Associate Professor: WILLIAM A. HANSEN, *Chairman*

Assistant Professor: DANIEL K. CHURCH

Instructor: JAMES L. CHAPMAN (*On leave 1971-73*)

Part-time Lecturer: GEORGE SCRANTON

The Speech Department offers courses to all students seeking rational management of themselves as speakers and listeners. The curriculum is designed to generate understanding of speaking as a social process and of speech as an art form.

Departmental majors may concentrate in one of two areas: Speech Communication (including Public Address), and Drama. *Speech Communication* area majors are exposed to modern communication theory, its application and its historical roots in the development of rhetorical theory from ancient Greece to recent times. Research centers in intrapersonal, interpersonal and cultural problems man has encountered in his attempts to solve his personal, religious, social and political concerns. *Drama* area majors, in the liberal arts tradition, are exposed to a large body of dramatic literature, to an understanding of the historical development of theatre as a social/artistic institution, and to dramatic theory as it applies to production, providing a basis for insightful criticism.

### REQUIREMENTS FOR A MAJOR

The Speech major will complete Speech 101, 498, Speech Practicum 150(350), or 151(351), or 152(352) to be repeated for three quarters, sequentially, and additional courses chosen from his area of emphasis, with the consent of the department, to a minimum of fifty-one hours. No more than twelve hours of *Speech Practica* may be included in the minimum major requirement.

### Courses

#### 101 SPEECH COMMUNICATION (5)

Intrapersonal and interpersonal speech communication; the centering role of speech in the liberal arts; interactive symbolic processes—verbal and non-verbal—in speaking and listening.

#### 102 VOICE AND ARTICULATION (3)

Study and application of principles basic to good voice quality, effective use of voice in reading and speaking, introductory study of the sounds of American English, application to the individual problems.

#### 103 SMALL GROUP DISCUSSION (3)

Awareness of the processes operant in small, coacting group activity; theories of structure, climate, roles, norms, leadership and participation; group effort in fact finding, problem solving and decision making.

#### 180 DRAMA AS ART (5)

A broad view of dramatic theory and practice designed to develop critical, historical and aesthetic appreciation of dramatic arts. An introduction to the theatre and motion pictures.

#### 221 ARGUMENTATION AND PARLIAMENTARY PROCEDURE (5)

Principles of argumentation and their application to significant current issues; analysis, evidence, inference, and refutation; extensive practice in public disputation. Class practice in parliamentary procedure and chairmanship.

#### 222 PERSUASION (5)

A study of the process of influencing human behavior; the ethical considerations inherent in influence; argumentation as a significant and fundamental persuasive technique; evaluative experience and performance.

#### 223 PUBLIC ADDRESS (5)

A basic course in platform speaking, combining analysis, preparation and delivery of formal speeches on economic, political and social topics. The rhetorical criticism of significant models.

#### 260 ORAL INTERPRETATION OF LITERATURE (3)

Analysis of literary works for the purpose of discovering means of effective oral communication of studied interpretation; provides opportunities for practical experience in the classroom.

#### 281 DEVELOPMENT OF THE THEATRE (5)

Traces the evolution of the theatre from earliest recorded performances to the present; development of physical playhouse and dramatic theory; relates to the universal themes of dramatic literature as illustrated by playscripts from the several eras.

#### 282 THE ACTOR'S ART (3)

An introduction to the actor's task in preparation for the dramatic performance; focusing on sensory awareness; exercises in observation, concentration and characterization.

(Offered Yearly or on Demand)

#### 301 SPEECH COMMUNICATION IN CREATIVE TEACHING (5)

Psychological and physical foundation of communication in teaching and learning. Extensive application of creative activities to the classroom.

#### 302 LISTENING (3)

Aesthetic and substantive listening experiences; methods of diagnostic testing; individual development of listening curriculum in elementary, secondary classrooms.

#### 325 PRODUCING CHILDREN'S PLAYS (3)

Creative techniques in directing plays in the classroom; understanding children as audience; choice or development of playscript.

#### 381 PLAY DIRECTING AND DESIGN (5)

Aesthetic principles of play production from the standpoint of the director and designer; analysis, interpretation and design decision for the communication of dramatic themes; discussion and creative assignment.

#### 390 THE SPEECH-HANDICAPPED SCHOOL CHILD (3)

Nature, causes and corrective therapy for certain speech defects. Of value to prospective teachers, teachers of elementary grades.

#### 428 CLASSICAL RHETORIC (5)

The study of selected classical rhetoricians from Pericles to Augustine.

#### 498 READING AND CONFERENCE (1-5)

*Prerequisite: Substantially the completion of course work for the major; permission.*  
Individual research and conferences in areas of specialization within the field of speech, may be repeated.

### Speech Seminars

(Offered every other year or on demand)

Lecture-discussion with an emphasis on guided research in areas of student interest; open to majors and non-majors.

#### 321 RHETORICAL CRITICISM (5)

A study of ancient and contemporary theories of rhetoric; classical, neo-classical and modern works and movements in rhetorical method; the impact of contemporary literary criticism on rhetoric; the relevance of content analysis to rhetorical criticism.

#### 342 INTERPERSONAL COMMUNICATION (3)

Provides opportunity for the student to confront himself as he relates to other people; an evaluation of personal motives in social interaction; a study of communication phenomena such as language problems, semantic reactions, motives, fears and the like.

#### 407 AMERICAN PUBLIC ADDRESS (5)

The history and criticism of selected American political, social and religious oratory from colonial times to the present.

#### 408 BRITISH PUBLIC ADDRESS (5)

The history and criticism of selected British parliamentary, judicial and pulpit oratory, 1700 to 1900.

#### 410 THE TEACHING OF SPEECH (5)

Teaching methods and problems of the speech classroom and curriculum; the history of speech education. Required of majors seeking teaching credentials in speech and drama.

#### 411 SPEECH SCIENCE (5)

Directed study of significant research in the behavioral and

physiological foundations of the speech act; the science of speech communication explored through phonetics, articulation, and vocal production.

#### 413 CONTEMPORARY RHETORIC (3)

Directed study in contemporary rhetoric; analysis of the means of persuasion employed in campus revolts, racial unrest, civil disobedience, and the like.

#### 432 CONFERENCE AND GROUP COMMUNICATION (3)

Critical analysis of the theory and practice of small group interaction as an everyday community activity; practice in fact finding and decision making.

#### 480 RELIGION AND THE THEATRE (3)

Guided exploration of the relationship between moral theatre and the religious impulse; exposure to the theories of religious theatre and selected religious playscripts.

#### 481 THE FILM (3)

Examination of the development of the motion picture and its artistic principles; individual and group experiments in film production.

#### 485 THEORY OF DRAMA (3)

Examination in depth of selected aspects of dramatic theory in areas of acting, theatre architecture, the nature of drama, the avant garde theatre.

#### 489 PLAYWRITING (3)

Class discussion and conferences in the writing of an actual playscript. Significant dramatic experience a prerequisite.

### Speech Practica

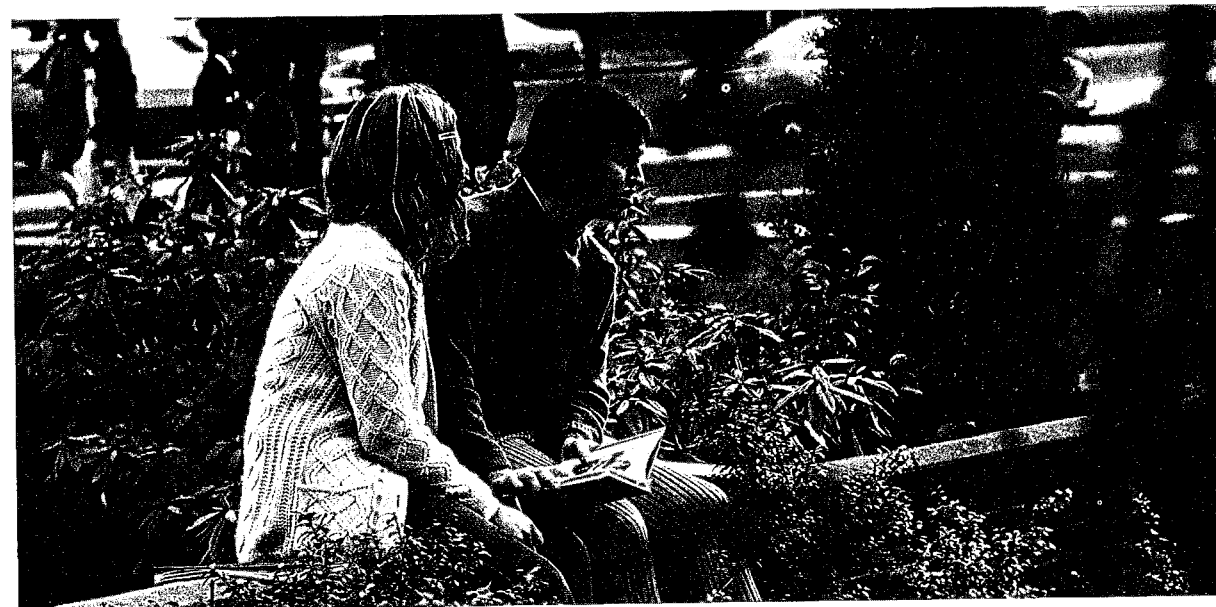
(Offered each quarter)

Speech principles and instruction in areas of student performance, including forensics, community speaker's bureau, radio speaking; theatre management, acting, technical theatre and play directing. May be repeated.

#### 150 (350) FORENSICS PRACTICUM (1-3)

#### 151 (351) COMMUNICATION PRACTICUM (1-3)

#### 152 (352) DRAMA PRACTICUM (1-3)



# Financial Information

1972-73

Seattle Pacific College is a nonprofit, church-related institution whose educational program is supported primarily by tuition. Additional funding for the educational program is provided by gifts from alumni and friends, churches of the Northwest, and business and institutional contributions through the Independent Colleges of Washington, Incorporated.

Seattle Pacific College reserves the right to change its charges at any time without previous notice. However, after the beginning of a quarter, no change will be made which is effective within that quarter.

## Tuition and Fees

Seattle Pacific College's tuition covers, in addition to direct instructional costs, a wide list of student services. These additional programs include guidance and health services, use of the college science and data laboratories, the library and Student Union Building, and post office boxes. Other student benefits include admission to all college athletic events, membership in the Associated Students and its programs, participation in intramural activities, and a share in the Physical Education Expansion Project. For full-time students enrolled for all three quarters of the regular session the tuition also includes a copy of the year book.

### QUARTERLY TUITION

Regular Tuition for day courses, or combination of day and evening courses	
12-17 credits .....	\$590.00
Under 12 or over 17 credits	
per credit hour.....	\$ 52.50
Tuition for enrollment in only evening courses	
Under 7 credits	
per credit hour.....	\$ 40.00
7 credits or more.....	day rates apply
Tuition for arranged courses.....	day rates apply
Tuition for interterm courses.....	night rates apply
Tuition for auditors (available for lecture courses only) .....	one half the regular charge

### ADMISSION FEES

Application Fee (non-refundable, submitted with application for admission).....	\$ 15.00
Matriculation Fee (paid only at initial entrance to SPC) .....	\$ 10.00
Room Reservation and Damage Deposit (required of all residential students) .....	\$ 25.00
Tuition Deposit (required of all students).....	\$ 50.00
Readmission Fee (for lapsed status)	
Undergraduate Student .....	\$10.00
Graduate Non-Degree Student (requesting enrollment for more than 6 credits per quarter).....	\$10.00
Graduate Degree Student.....	\$25.00

### REGISTRATION FEES

Late Registration Fee	
(Applicable if registration is not completed prior to the first day of of a quarter's classes)	
First week of classes .....	\$ 5.00
Second and following weeks.....	\$ 10.00
Fee for Removing "Incomplete," per course .....	\$ 5.00
Examination Fee for credit by examination, challenge, or exemption from specific requirement, per course.....	\$ 25.00
Credit by Examination or Challenge	
less than six hours, per credit hour.....	\$ 12.00
6 to 10 hours, per credit hour.....	\$ 11.00
more than 10 hours, per credit hour.....	\$ 10.00

### CURRICULUM FEES

	<i>Charges Per Quarter</i>
<i>Music</i>	
Major Fee (covers one or two required lessons and practice for approved majors) .....	\$ 40.00
Individual Instruction Fee (half-hour lessons weekly)	
(courses 111-411, 112-412, 113-413, 114-414, 115-415, 116-416, 117-417)	
per credit .....	\$ 40.00
Private, Non-Tuition Instruction in Applied Music (per lesson weekly).....	\$ 60.00
Class Instruction Fee (2 periods weekly) (courses 114c, 116c), per course.....	\$ 10.00
Quarterly Rental Fees	
Pipe Organ (5 hours per week)	
Two-Manual Organ .....	\$ 15.00
Three-Manual Organ .....	\$ 25.00
Combination Rate .....	\$ 17.50
Band or Orchestra Instrument (Includes practice room 5 hours per week).....	\$ 10.00
Practice Room	
5 hours per week.....	\$ 5.00
10 hours per week.....	\$ 10.00

### Nursing Education

NLN Achievement, Vocational	
Interest Tests .....	\$ 10.00
Professional Laboratory Fee (Courses 361, 363, 365, 367, 429), per course.....	\$ 10.00

### Teacher Education

Student Teaching Fee	
(Courses 388, 389, 486), per course	\$ 15.00
(Courses 376, 380, 386), per course	\$ 30.00

### RECORDS FEES

Official Transcript Fee (after the first, which is free) .....	\$ 1.00
Teacher Placement Bureau	
Initial Enrollment .....	\$ 5.00
Teaching Credential Set, per set.....	\$ 1.00
Credential Updating Fee, per year.....	\$ 5.00

### GRADUATION FEES

Baccalaureate Degree .....	\$ 25.00
Master's Degree (including comprehensive examination) .....	\$ 35.00
Master's Thesis or Project Binding Fee.....	\$ 7.50

### PARKING FEE

Assigned Student Parking (for available spaces), per quarter.....	\$ 5.00
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### BUSINESS OFFICE FEES

Monthly Payment Plan Service Fee (non-refundable)	
(sent with application for plan).....	\$10.00
Deferred Payment Plan Set-up Fee,	
per quarter .....	\$ 2.00
Returned Check Fee, per check.....	\$ 2.00
Late Payment Penalty.....	\$ 2.00
Account Service Charge	
If account balance is less than \$50.00, the monthly service charge is 50¢.	
If account balance is \$50.00 or more the monthly service charge is 1% of the unpaid balance.	

## MEDICAL FEES

Evidence of medical insurance for accidents, sickness and prolonged illness is required of all students enrolling for seven or more credits in a quarter. Such students are required to enroll in the college-approved student Medical Insurance plan, unless an insurance waiver card is submitted at the time of registration indicating comparable coverage elsewhere.

**Medical Insurance, per quarter . . . . . \$20.00**

## LIVING EXPENSES

All undergraduate students are required to live in the college residence halls unless they are married or living with their parents in the Seattle area. Under very unusual circumstances exceptions may be made for upper division students, provided that arrangements are *approved in advance* by the Dean of Students. To be eligible for a room in one of the residence halls, a person must be a registered student at SPC and take his meals in the college dining commons. The charges quoted are individual student rates for two students per room. If a student choose to occupy a residence hall room alone, and such is available, an additional charge of \$30.00 per quarter will be made.

**Charges for Board in Gwinn Commons and Room in Residence Halls, per quarter . . . . . \$318.00**

The quarterly board entitles a student to meals beginning with the evening meal the day residence halls open for his classification of student (new or continuing), and expires with the evening meal of the last day of examinations.

Spring Quarter graduates will be issued supplementary meal tickets valid through the evening meal of Commencement Day.

There will be no refund for meals missed during the week, or on weekends.

Residence Halls are closed during the vacation periods indicated in the Residence Hall contract.

Special arrangements must be made in advance for room and board during vacation periods by residential students planning to remain in the Seattle area.

## ESTIMATED EXPENSES FOR 1971-72

	Per Quarter	Per Year
<i>For Residence Hall Students</i>		
Tuition .....	\$590	\$1770
Board and Room .....	318	954
Total .....	\$908	\$2724
<i>For Non-Resident Students</i>		
Tuition .....	\$590	\$1770
<i>Textbooks and Supplies</i>		
Average Cost .....	\$ 50	\$ 150

## Financial Arrangements

Satisfactory financial arrangements must be made before a student may complete registration and attend classes. Four methods of completing financial arrangements are available for the regular academic sessions: (1) cash payment in advance for the amount due; (2) the Monthly Payment Plan; (3) Bank Cards; (4) the Deferred Payment Plan. The eligibility for each of these methods is explained in the following sections. Summer session financing is outlined in the special Summer Session Bulletin.

### CASH IN ADVANCE

It is expected that many students will pay cash at the time of each quarter's registration for the charges applicable to that quarter. This method of completing financial arrangements is the only option available to students enrolling for less than nine credits per quarter.

### MONTHLY PAYMENT PLAN

Seattle Pacific College offers an optional monthly

payment plan for basic tuition and room and board charges to students planning to enroll for 12 or more credits each quarter of the 1972-73 regular session.

The 12 month payment plan for tuition and room and board begins on May 1, 1972—the first billing date for the program. If a student chooses to enter the program late, all back payments must be made up when he joins the plan.

The amount of annual college expenses which can be paid on the monthly payment plan may be selected by the student, subject only to \$100 per month minimum payment plan. The annual service charge for the monthly payment plan, regardless of the amount selected, is only \$10.00. There are *no added finance charges* related to these payments. Credit life insurance is included in the plan without additional charge to the parent.

Application forms for the monthly payment plan can be requested from the Office of Business Affairs, Seattle Pacific College, Seattle, Washington 98119. It is recommended that the completed application be sent to the College by May 1, 1972 to permit the student full participation in the plan's benefits.

### BANK CARDS

Students enrolling in only night classes totalling under seven credits may charge their tuition to either their Master Charge or Bank Americard account. The college bookstore also accepts both bank cards for any purchases.

### DEFERRED PAYMENT PLAN

Students enrolled for seven or more hours in a given quarter of the regular session may elect to complete financial arrangements for registration, using the Deferred Payment Plan. This plan requires a minimum down payment each quarter before attending classes of \$375 if the student lives in a residence hall, or of \$250 if he lives off campus.

*Financial aid credits to the students' account cannot be applied toward the minimum down payment for the Deferred Payment Plan.*

If this plan is used, a \$2.00 set-up fee will be added to the account. In addition, the account balance

is subject to the monthly account service charge.

One-half of the unpaid balance is due one month from the first day of the quarter's classes. The remaining account balance is payable in full two months from the first day of the quarter's classes. The deferred payment dates for 1972-73 are as follows:

Autumn Quarter, 1972: October 25 and  
November 24

Winter Quarter, 1973: February 2 and March 2

Spring Quarter, 1973: April 20 and May 21

## STUDENT ACCOUNT SYSTEM

Seattle Pacific College posts student charges and credits to individual student account ledgers. All charges are due and payable upon posting to the student's account. Balances which are not paid on or before the last college business day of each month will be subject to a monthly account service charge of 50¢ or 1% of the unpaid balance, whichever is greater.

Checks for the correct cash amount due may be mailed to the Cashiering Section of the Business Office. Such checks will be applied to students' accounts without additional penalty charges if the checks are dated and post-marked at least two business days prior to the payment due date. Checks should *not* be sent through campus mail. Financial arrangements for registration which are made in person must be made on or before the last college business day preceding the beginning of a quarter. See the official calendar for these dates.

A student who has unpaid financial obligations to the College at the beginning of a quarter will not be permitted to complete enrollment or attend classes until such obligations are met. No diploma or transcript will be issued until all financial obligations have been satisfied. A continued failure to meet prior financial obligations may require the referral of the delinquent account to an outside agency for collection.

## REFUNDS

A credit balance in a student account may be refunded to the student on demand. Refunds on

charges will be made only for tuition and curriculum fees, and the board portion of housing costs. Deposits will be refunded according to the policies governing them. Tuition and curriculum fees, except music fees, will be refunded to a student who officially withdraws from a course according to the schedule stated below. The date on which the official withdrawal form *is received by the Cashiering Section* of the Business Office will determine the amount of the refund.

*Schedule of Refunds*

First Day of Classes.....	100%
Remainder of First Week.....	80%
Second Week .....	60%
Third Week .....	40%
Fourth Week .....	20%
Fifth and Following Weeks.....	0%

There will be no refunds of applied music fees for lessons or class instruction dropped after the first week of the quarter.

If a student cancels his Autumn Quarter reservation for a residence hall room prior to occupancy, his Room Reservation and Damage Deposit in the amount

of \$25.00 will be refunded if written notification of cancellation is received in the Office of Student Affairs by August 1, 1972. For cancellation of Winter Quarter occupancy, written notification must be received by November 6, 1972. For cancellation of Spring Quarter occupancy, written notification must be received by February 14, 1973.

If, after occupying a room in the residence hall, it becomes necessary for a student to cancel his Residence Hall Contract he forfeits, as reasonable liquidated damages, the remainder of room rent for the balance of the quarter. A refund of board will be made on a prorated basis. For refund purposes, the board portion of room and board charges will be considered to be \$195 per quarter.

The Room Reservation and Damage Deposit will be refunded upon withdrawal from school, providing proper notification of intended departure is given the Office of Student Affairs (see Residence Hall Contract and current Student Handbook for withdrawal procedures) and providing there is no assessment for property damage. Failure to give sufficient notification will necessarily result in forfeiture of deposit.



## Financial Aids

Seattle Pacific College is pleased to work with a student and his parents in identifying sources of financial aid that can supplement the financial resources of the family. The student and his parents make a maximum effort by drawing from income and assets. The college makes available loans, employment and scholarships, singly, or in various combinations.

To apply for financial aid through the college a student and his parents must complete the Parents' Confidential Statement (PCS). This form may be obtained at a secondary school or a college financial aid office. Its purpose is to give the parents and student an opportunity to explain their financial circumstances. Also, the student must complete an SPC financial aid application which is sent directly to the college. From an analysis of these confidential forms the amount of parental and student income and assets which can be applied toward college costs is determined. The Financial Aid office will then award aid to assist in meeting the remaining financial need.

### APPLICATION DEADLINES

*New students* applying for aid must: (1) file the PCS with the College Scholarship Service by February 15; (2) mail the SPC financial aid application to SPC; (3) complete Application for Admission to the college by February 15.

*Students in attendance* who plan to return to the campus the following year and who wish to apply for financial aid should: (1) file the PCS with the College Scholarship Service by February 15; (2) submit a Seattle Pacific College application for

financial aid to the Office of Student Financial Aid Services by April 1. It is required that the parents will complete the Parents' Confidential Statement each year for which financial aid is requested.

### KINDS OF AIDS

#### LOANS

*National Defense Student Loan Fund.* This program, operated under the National Defense Education Act, combines funds from the Government and Seattle Pacific College to assist young people who wish to attend SPC but who have serious financial need. The degree of need is determined by the income and resources of the applicant and his family as documented by a Parents' Confidential Statement. In addition, the borrower must be a citizen or permanent resident of the United States. National Defense Student Loans carry a very low rate of interest (3%) and are repayable over a period of several years following graduation or withdrawal from school.

*Nursing Student Loan Program.* Full-time students enrolled in the School of Nursing with at least sophomore standing are eligible to apply for loans up to \$2500 to assist in covering their financial needs. Loans are repayable over a ten-year period, beginning one year after completion of the course of study. Cancellation of part or all of the loan may be made under certain conditions for full time work as a professional nurse following graduation. A Parents' Confidential Statement is required to verify need.



*Ministerial Candidate Loan.* A student who has completed at least two full years of satisfactory college study in preparation for full-time ministerial or missionary service, and who is officially recognized as a ministerial candidate by his denomination is eligible to apply for a ministerial candidate loan up to \$300 per academic year. Approval for this loan is made by the Religion Department at SPC. The loan may be cancelled at the rate of 20 per cent per year for full-time enrollment in a seminary or in approved full-time Christian service. Application forms are available in the office of the School of Religion. A Parents' Confidential Statement is also required to verify need.

*Law Enforcement Loan Program.* Students preparing for careers in law enforcement may apply for loans up to \$1,800 per year. These loans may be cancelled at a rate of 25% per year for full-time employment in a public state, local or federal law enforcement agency. In-Service law enforcement personnel are eligible for grants as well as loans.

*Short Term Loan Funds.* There are various other loan funds from which, under emergency conditions, limited amounts of money may be borrowed for short periods of time to meet part of a quarter's charges. These include: Bing Crosby Youth Loan; C. May Marston Fund; Glen Phelps Fund; Stephen Scott Fund; Crete Hammersla Fund; Clarence H. Glandon Memorial; William and Helen Edgbert Loan Fund; Rotary Club Fund; Franklin Armstrong Loan; Dr. James M. Reddick Memorial Fund; Chester and Myrtle Palmer Memorial Fund; a number of loan funds established by individuals, clubs, churches and other community groups.

*Federally Insured Student Loans.* These loans are made through banks, savings and loan associations, credit unions, pension funds and insurance companies. Any student admitted to SPC who is a U.S. citizen, national, or person in the U.S. for other than a temporary purpose is eligible to apply. The loans are made at the discretion of the lending agency. The annual rate of interest is 7%. If the student's adjusted family income is less than \$15,000 the

Federal Government will pay the total interest while the student is in school. All borrowers pay the 7% interest rate during the repayment period. Repayment begins nine months after the student leaves school. This repayment period runs up to ten years.

#### SCHOLARSHIPS

In order to bring to Seattle Pacific College young men and women of superior character who have excelled in scholarship and in extra-curricular areas, the College offers scholarships. It is expected that all students accepting scholarships of any kind will endeavor earnestly to be effective examples of the ideals and standards of conduct for which the College stands. It is expected that each scholarship recipient will plan to complete his undergraduate work at Seattle Pacific College. Financial need and merit are the bases for these scholarships, which are usually awarded as part of a student's financial aid package.

*Nursing Scholarships* are awarded to students who have been admitted to the school of Nursing at SPC and have demonstrated exceptional need. These scholarships may be awarded in amounts up to \$2,000. The amount will depend upon the availability of funds, the number of students applying, and their need.

*Music Scholarship and/or Music Honors at Entrance* are awarded on the basis of audition before the music faculty to students who demonstrate outstanding musical talent and promise.

*Other Scholarship Funds.* A number of scholarship funds have been established by interested individuals and groups for use by the College in its financial aid program. These include: Causey Biology Scholarship; Clyde and Mary Fite Scholarship; Frank Kohler Scholarship; Gerald Northrup Memorial Scholarship; Earl Phillips Scholarship Fund; Gail Taylor Memorial Speech Fund; Margaret McCarty Scholarship Fund; Gladys Merrick Scholarship Fund; Burton Moyer Scholarship; Robert S. Hutchinson II Scholarship Fund; Sophie L. Anderson Scholarship Fund; Vern E. Archer

Scholarship Fund; C. H. Watson Scholarship Fund.

#### GRANTS

Grants are gift aid awarded on the basis of need and do not require excellence in scholarship.

*Educational Opportunity Grants.* The Federal Government makes available grants of up to \$1,000 to persons with exceptional financial need who would otherwise be unable to attend the College. The amount of EOG grant is matched each quarter by other types of aid such as loans, scholarships, other grants, or campus employment. The student must carry a full academic load.

*Ministerial Grants.* A limited number of ministerial grants are available to certain full-time students who do not otherwise qualify for college grant funds. Applications for grants of up to \$300 per academic year will be considered from active ministers or missionaries, their spouses or dependent children. Ministerial grants are made as part of a student's financial aid package. A Parents' Confidential Statement is required to establish financial need.

*Regular scholarships and grants are not available during the summer session. In some cases Federal aid programs are available if the student is attending the college in the Spring Quarter, or in the subsequent Autumn term.*

*Scholarship and Grant recipients must live in the College residence halls, unless married or living at home with their parents. All recipients must be enrolled for at least twelve credits per quarter. These awards will not apply for any quarter in which the course load falls below this amount.*

#### EMPLOYMENT OPPORTUNITIES

*Campus Work.* The College makes available to

students each year several hundred jobs on campus. These on-campus employment opportunities are primarily reserved for use as part of the financial aid award process. A few jobs requiring special skills are assigned outside the financial aid process, but such placements must be cleared in advance by the Office of Student Financial Aid Services.

Most campus jobs pay \$1.60 per hour. While the pay scale is lower than for off-campus work, the saving of transportation time and cost, as well as convenience, often makes a campus job a wise choice for a busy student.

*Work-Study Program.* Seattle Pacific College is a participant in the government-sponsored Work-Study Program, whereby students lacking financial resources may be placed in an approved job on or off campus, and be paid from a fund provided primarily by the Federal Government. The applicant for this program must fulfill the following qualifications: he must (1) be either a U.S. citizen or a permanent resident; (2) be in need of employment to help finance his college education; and (3) be able to carry a minimum of 12 credits and maintain acceptable grades during such employment.

Students eligible for the Work-Study program will be placed in the program as part of their financial aid award.

Application for campus employment and/or the Work-Study Program may be made at any time after official acceptance as a student. In most cases, a job assignment is made only after a personal interview.

*Off-Campus.* An off-campus employment service is maintained by the Office of Student Financial Aid Services. Off-campus jobs usually require a minimum of three or more hours daily in a single block of time. Obviously, the decision to seek such employment should be weighed carefully for its effect upon the student's health and academic achievement.

# Trustees, Administration and Faculty

## Board of Trustees (1971-72)

Chairman . . . . . FOREST C. BUSH  
 Secretary . . . . . THOMAS J. ISAAC  
 Treasurer . . . . . BERT L. SELLIN

Year of Accession	Elected By	Expiration of Term
1969	DAVID V. ABBOTT <i>Seattle, Washington</i>	Pacific Northwest Conference 1973
1970	DONALD V. ATKINSON <i>Marysville, Washington</i>	Pacific Northwest Conference 1973
1962	BRUCE C. BARTLETT <i>Caldwell, Idaho</i>	Columbia River Conference 1972
1969	ELMER BRADLEY <i>Tempe, Arizona</i>	Board of Trustees 1972
1962	BEN R. BURGOYNE, M.D. <i>Arlington, Washington</i>	Pacific Northwest Conference 1974
1947	*MARVIN E. BURKE <i>Seattle, Washington</i>	Board of Trustees 1971
1956	*FOREST C. BUSH <i>Seattle, Washington</i>	Pacific Northwest Conference 1974
1964	ALVIN G. DELAMARTER <i>Portland, Oregon</i>	Oregon Conference 1973
1964	BERNARD E. HANSEN <i>Seattle, Washington</i>	Pacific Northwest Conference 1972
1949	STUART W. HOLMES, M.D. <i>Oroville, Washington</i>	Pacific Northwest Conference 1973
1959	*THOMAS J. ISAAC <i>Seattle, Washington</i>	Board of Trustees 1973
1963	WESLEY F. JEFFERY <i>Spokane, Washington</i>	Columbia River Conference 1972
1971	ELDON R. JOHNSON <i>Newberg, Oregon</i>	Oregon Conference 1974
1941	R. ELMER MCDOWELL <i>Stanwood, Washington</i>	Board of Trustees 1971
1971	EDWARD R. McMILLAN <i>Bainbridge Island, Washington</i>	Board of Trustees 1974
1971	JOEL H. PAGET <i>Redmond, Washington</i>	Alumni Association 1974

\*Executive Committee

Year of Accession	Elected By	Expiration of Term
1938	MARION B. ROBBINS <i>Newberg, Oregon</i>	Board of Trustees 1971
1968	LEONARD C. ROOT <i>Seattle, Washington</i>	Pacific Northwest Conference 1974
1971	LLOYD ROOT <i>Madras, Oregon</i>	Oregon Conference 1974
1966	*BERT L. SELLIN <i>Mercer Island, Washington</i>	Board of Trustees 1972
1961	*EDWIN A. TEEL <i>Seattle, Washington</i>	Board of Trustees 1973
1958	*M. MARVIN WALLACE, M.D. <i>Bellevue, Washington</i>	Alumni Association 1973
1958	*PAUL T. WALLS <i>Seattle, Washington</i>	Pacific Northwest Conference 1973
1951	C. WOODROW WILLSON <i>Bremerton, Washington</i>	Pacific Northwest Conference 1972

Honorary Member:  
 MAURICE C. MILLER  
*Turner, Oregon*  
 Superintendent, Oregon Conference  
 Free Methodist Church

\*Executive Committee

## Administration

DAVID L. MCKENNA, Ph.D., *President*  
 LON D. RANDALL, Ed.D., *Vice President*  
 ACADEMIC POLICIES AND PROGRAMS  
 F. WESLEY WALLS, Ph.D.  
*Dean of Academic Development*  
 WILLIAM D. REARICK, Ed.D.,  
*Dean of Academic Administration*  
 ADMISSIONS AND REGISTRATION  
 LEON K. GERIC, M.S., *Director of Admissions*  
 LYDIA McNICHOLS, B.S.,  
*Director of Registration and Records*

FINANCE  
 LAWRENCE W. WRIGHT, Ph.D.,  
*Director of Finance*  
 LEARNING RESOURCES  
 HELEN STRICKLAND, B.A., *Director*  
 BERNICE F. SMITH, B.A., B.L.S., *Associate Director*  
 Weter Memorial Library  
 SUSIE AOYAMA, M.Lib.  
 LAURA ARKSEY, M.Lib.  
 ANNE G. BATEMAN  
 ADELINE COOPER  
 BETTY FINE, B.A.  
 MARCIA REED, M.Lib.  
 ANITA J. STEURY, B.A.  
 J. RONALD TODD, B.A., B.L.S.

Language Laboratory  
DONALD VESEY, B.D., M.A.

Curriculum Library and Audio-Visual Center  
PETER SMITH, M.A.  
CAROLYN KRUSE, B.A.

#### PUBLIC RELATIONS

NORMAN L. EDWARDS, M.A.,  
Director of College and Alumni Relations

#### STUDENT PERSONNEL SERVICES

C. CLIFFORD McCRATH, B.D., Dean of Students

## Faculty and Staff

DAVID L. MCKENNA, Ph.D.

President  
B.A., Western Michigan University, 1951; B.D., Asbury  
Theological Seminary, 1953; M.A., University of  
Michigan, 1955; Ph.D., 1958. President, Seattle Pacific  
College, 1968—.

LON D. RANDALL, Ed.D.

Vice President  
B.A., Fort Wayne Bible College, 1955; M.S., Indiana  
University, 1957; Ed.D., 1959. At SPC since 1968.

### Emeriti

PHILIP F. ASHTON, Ph.D., L.H.D.

Professor of Psychology and Education Emeritus  
B.A., University of Washington, 1927; M.A., 1929;  
Ph.D., 1937; L.H.D., Seattle Pacific College, 1971. At  
SPC 1929-42 and 1944-71. Emeritus since 1971.

MARGARET A. BURSSELL, B.E., B.S. in L.S.

Librarian Emeritus  
B.E., University of Washington, 1922; B.S. in Library  
Science, 1931. Librarian and Assistant Professor, Seattle  
Pacific College, 1937-64; Associate Professor, 1964-65.  
Emeritus since 1965.

ELVIS E. COCHRANE, M.A., Th.M., D.D.

Professor of Religion and Philosophy Emeritus  
B.A., Greenville College, 1915; M.A., University of  
Southern California, 1921; Th.M., 1935; D.D., Seattle  
Pacific College, 1942. Associate Professor, Seattle Pacific  
College, 1946-51; Professor, 1951-59; Dean, School of  
Religion, 1951-59. Emeritus since 1959; Annual  
Lectureship Assignment, 1959-70.

C. DORR DEMARAY, M.A., Litt.D.

President Emeritus  
B.A., Ed., University of Michigan, 1924; M.A., 1927;  
Litt.D., Seattle Pacific College, 1945. President, Seattle  
Pacific College, 1959-1968. Emeritus since 1968.

OTTO M. MILLER, M.S., Sc.D.

Vice President Emeritus  
B.S., University of Nebraska, 1926; M.S., Kansas State  
College, 1932; Sc.D., Seattle Pacific College, 1959.  
Professor of Physics, Seattle Pacific College, 1937-65;  
Dean, 1937-42; Executive Vice President, 1944-65;  
Student Finance Officer, 1965-66. Emeritus since 1966.

MABEL JONES MOYER

Instructor in Piano Emeritus  
Graduate, Greenville College School of Music, 1901;  
Student of Rudolph Ganz, Chicago Musical College, 1902.  
Instructor in Piano, Seattle Pacific College, 1925-60;  
Director, School of Music, 1933-40. Emeritus since 1960.

ELMER B. SIEBRECHT, M.A., Ed.D.

Dean of Education Emeritus  
B.A., St. Olaf College, 1926; M.A., University of  
Minnesota, 1934; Ed.D., New York University, 1941.  
Associate Professor of Education, Seattle Pacific College,  
1955-60; Professor of Education and Dean of School of  
Education, 1960-65. Emeritus since 1965.

### Faculty (1971-72)

(Including Administrative Officers with Faculty Rank)

DONALD MARK ANDERSON, M.S.

Assistant Professor of Engineering Science  
B.S., McPherson College, 1951; M.S., Kansas State  
University, 1954; Doctoral studies, University of  
Washington. At SPC part time 1964-65;  
full time since 1965. (On leave, 1970-72.)

ROGER H. ANDERSON, Ph.D.

Professor of Physics  
B.S., University of Washington, 1951; Ph.D., 1961;  
National Science Foundation, Science Faculty Fellow,  
University of Illinois, 1968-69. At SPC 1961-68  
and since 1969. (On leave, Autumn 1971.)

SUSIE AOYAMA, M.Libr.

Reference Librarian; Instructor  
B.S., University of Illinois, 1951; M.Libr., University of  
Washington, 1966. At SPC since 1966.

ARTHUR LEON ARKSEY, M.A.

Associate Professor of English  
B.A., Greenville College, 1948; M.A., University of  
Illinois, 1952. At SPC part time 1958-59; full time since  
1959. Visiting Professor of English, Chapman College-  
World Campus Afloat, Fall Semesters 1970 and 1971.  
(On leave Autumn 1971.)

WAYNE HARWOOD BALCH, Mus.M.

Director of School of Music; Professor of Music  
B.A., Wheaton College, 1942; Mus.M., American  
Conservatory of Music, 1949. At SPC since 1966.

KEITH A. BELL, Ed.D.

Professor of Education and Psychology; Counselor  
B.A., Whitworth College, 1941; B.D., Western Baptist  
Theological Seminary, 1947; M.Ed., University of Oregon,  
1951; Ed.D., Oregon State University, 1959.  
At SPC since 1966.

DONALD S. BLAIR, M.A.

Professor of Education  
B.A., University of Washington, 1935; M.A., Stanford  
University, 1940. At SPC since 1967.

SHARON JANE BLOCK, M.A.

Assistant Professor of French and Spanish  
B.A., University of South Florida, 1965; M.A., University  
of North Carolina at Chapel Hill, 1967. At SPC  
since 1968.

GUSTAVE BREITENBACH, M.A.

Associate Professor of German  
B.A., Seattle Pacific College, 1941; M.A., University of  
Washington, 1942; Fulbright-Hayes grant, Goethe  
Institute, Munich, Germany, 1965; EPDA Institute,  
Munich, Germany, 1969. At SPC part time 1959-61;  
full time since 1961.

DAVID C. BROOKS, M.S.

Associate Professor of Mathematics  
B.S., Seattle Pacific College, 1958; M.S., University of  
Washington, 1960. At SPC since 1967.

DORIS BROWN, B.S.

Instructor in Physical Education  
B.S., Seattle Pacific College, 1964. At SPC since 1969.

DAVID STEWART BRUCE, Ph.D.

Assistant Professor of Biology  
B.S. Ed., Taylor University, 1962; B.A., 1962; M.S.,  
Purdue University, 1965; Ph.D., 1968. At SPC  
since 1968.

MICHAEL CALDWELL, M.F.A.

Instructor in Art; Director, Art Center Gallery  
B.S., University of Oregon, 1968; M.F.A., 1970.  
At SPC since 1970.

GRAYSON CAPP, Ph.D.

Assistant Professor of Chemistry  
B.S., Seattle Pacific College, 1958; M.S., University of  
Oregon, 1961; Ph.D., 1966. National Institute of  
Health (NIH) Post-doctoral Fellow, Duke University,  
1966-68. At SPC since 1968.

ARNOLD J. CARLSON, M.B.A.

Associate Professor of Economics and Business  
B.S., University of Washington, 1931; M.B.A., Harvard  
University, 1941. At SPC part time 1962-63;  
full time since 1963.

JAMES L. CHAPMAN, B.A.

Instructor in Speech  
B.A., Cascade College, 1960. At SPC part time 1961-62;  
full time since 1962. (On leave 1970-72.)

C. Y. JESSE CHIANG, Ph.D.

Associate Professor of Political Science  
B.A., St. John's University, 1944; M.A., University of  
Washington, 1951; Ph.D., 1958. At SPC since 1964.  
Visiting Associate Professor of Political Science, Chapman  
College-World Campus Afloat, Fall Semester 1969.

DANIEL KEITH CHURCH, M.A.

Assistant Professor of Speech  
B.A., San Francisco State College, 1967; M.A., 1968.  
At SPC since 1968.

GORDON ELVIS COCHRANE, Ph.D.

Professor of Sociology; Department Chairman  
B.A., Seattle Pacific College, 1950; M.A., 1957; Ph.D.,  
University of Southern California, 1968. At SPC  
since 1965.

JAMES H. CRICHTON, Ph.D.

Associate Professor of Physics  
B.S., Seattle Pacific College, 1959; Ph.D., University of  
California, 1965; National Science Faculty Fellow,  
University of Washington, 1971-72. At SPC since 1965.  
(On leave 1971-72.)

ABBIE E. DALE, M.S.

Assistant Professor of Home Economics  
B.S., University of Washington, 1962; M.S., 1966.  
At SPC since 1967; part-time, 1971-72.

JOSEPH L. DAVIS, Th.D.

Professor of Religion  
B.A., Seattle Pacific College, 1941; S.T.B., New York  
Theological Seminary, 1944; Th.M., Union Theological  
Seminary in Virginia, 1961; Th.D., 1966. At SPC  
part time 1947-49; full time since 1950.

- DONNA DeGraw, B.S., M.N.  
*Instructor in Nursing*  
B.S., University of Washington, 1962; M.N., 1970.  
At SPC since 1970.
- BURTON D. DIETZMAN, M.A.  
*Professor of Chemistry*  
B.S., Greenville College, 1934; M.A., Indiana University, 1940. At SPC since 1946.
- SAMUEL L. DUNN, Ph.D.  
*Associate Professor of Mathematics*  
B.A., Olivet Nazarene College, 1961; B.S., 1962; M.S., University of Wisconsin, 1964; Ph.D., University of Wisconsin, 1969. At SPC since 1968.
- E. JOYCE ERICKSON, Ph.D.  
*Assistant Professor of English*  
B.A., North Central College, 1965; M.A., University of Washington, 1966; Ph.D., 1970. At SPC since 1969.
- C. MELVIN FOREMAN, Ph.D.  
*Professor of Sociology*  
B.A., Seattle Pacific College, 1942; S.T.B., Biblical Seminary in New York City, 1945; M.A., University of Washington, 1955; Ph.D., 1957; Post doctoral Fellow, Yale Divinity School, 1970-71. At SPC 1948-52 and since 1953.
- KENNETH E. FOREMAN, Ed.D.  
*Professor of Physical Education;*  
*Department Chairman; Track and Field Coach*  
B.S., University of Southern California, 1949; M.S., University of Washington, 1954; Ed.D., University of Southern California, 1961. At SPC 1950-57 and since 1960.
- FRANK FURTADO, JR., B.S.  
*Instructor in Physical Education; Wrestling Coach*  
B.S., Seattle Pacific College, 1961. At SPC since 1964.
- FAN MAYHALL GATES, M.A.  
*Assistant Professor of English*  
B.A., Baylor University, 1956; M.A., Mississippi State University, 1963. At SPC since 1963.
- EVAN KEITH GIBSON, Ph.D.  
*Professor of English; Department Chairman*  
B.A., Seattle Pacific College, 1933; M.A., University of Washington, 1935; Ph.D., 1947. At SPC 1941-43 and since 1964.
- PAUL R. GIBSON, M.A.  
*Lecturer in Economics and Business*  
B.A., University of Washington, 1960; M.A., 1970.  
At SPC since 1971.
- LYDIA F. GREEN, M.N.  
*Director of School of Nursing;*  
*Associate Professor of Nursing*  
B.S., University of Nebraska, 1928; M.N., University of Washington, 1964. At SPC since 1952.
- LESTER H. GROOM, Mus.M., A.A.G.O.  
*Assistant Professor of Music*  
B.Mus., Wheaton College, 1951; Mus.M., Northwestern University, 1952; A.A.G.O., 1954; Graduate study in composition with Stella Roberts, American Conservatory of Music, 1953-54. At SPC since 1968.
- LESTER N. HABEGGER, M.Ed.  
*Director of Athletics; Head Basketball Coach;*  
*Professor of Physical Education*  
B.A., Wheaton College, 1954; M.Ed., University of Minnesota, 1956. At SPC since 1956.
- MARY L. HAMMACK, Ed.D.  
*Assistant Professor of Education*  
B.S., Oregon College of Education, 1945; University of Nottingham, England, 1948; M.Ed., University of Oregon, 1949; Ed.D., Oregon State University, 1970. At SPC since 1969.
- JEAN ALLEN HANAWALT, M.A.  
*Assistant Professor of English*  
B.A., University of Washington, 1945; M.A., 1954.  
At SPC since 1965. (On leave, Spring 1972.)
- WILLIAM A. HANSEN, Ph.D.  
*Associate Professor of Speech;*  
*Department Chairman*  
B.A., Seattle Pacific College, 1956; M.A., University of Washington, 1963; Ph.D., University of Oregon, 1972; Teaching Fellow, University of Oregon, 1968-70. At SPC part time 1958-60; full time 1960-68 and since 1970.
- DANIEL HARRIS, Ph.D.  
*Associate Professor of Economics and Business*  
B.A., Westmont College, 1963; M.B.A., University of California at Los Angeles, 1965; Ph.D., 1970.  
At SPC since 1970.
- JAMES L. HEDGES, M.A.  
*Assistant Professor of English*  
B.A., Seattle Pacific College, 1960; M.A., University of Washington, 1963. At SPC part time 1961-63; full time since 1963. (On leave 1967-72.)
- BONNIE L. HEINTZ, M.A.  
*Assistant Professor of English*  
B.A., University of Puget Sound, 1949; M.A., University of Washington, 1961. At SPC since 1960.
- E. WALTER HELSEL, Th.M.  
*Professor of Religion;*  
*International Student Admissions Counselor*  
B.A., Seattle Pacific College, 1939; S.T.B., New York Theological Seminary, 1942; Th.M., Princeton Theological Seminary, 1949. At SPC 1942-48 and since 1949.
- ROBERT C. HUGHSON, M.S.  
*Associate Professor of Engineering Science,*  
*Physics; Acting Department Chairman,*  
*Engineering Science*  
B.S., Seattle Pacific College, 1959; M.S., University of Washington, 1961. Atomic Energy Commission Radiological Physics Fellowship, University of Washington and Hanford Atomic Products Operation, 1959-60; National Science Foundation Science Faculty Fellow, University of Washington, 1966-68. At SPC part time 1960-61; full time since 1961.
- CARL EDWARD JOHNSON, M.A.  
*Assistant Professor of English and Journalism*  
B.A., Greenville College, 1962; B.D., Asbury Theological Seminary, 1965; M.A., Syracuse University, 1967.  
At SPC since 1967. (On leave, 1970-72.)
- ROBERT C. JOHNSON, Ed.D.  
*Associate Professor of Education;*  
*Director of Continuing Studies;*  
*Director of Graduate Studies in Education*  
A.B. and Th.D., Eastern Baptist Theological College and Seminary, 1947; B.A. in Ed., Western Washington State College, 1962; M.A., Northern Arizona University, 1965; Ed.D., Arizona State University, 1969.  
At SPC since 1967.
- WALTER H. JOHNSON, Th.D.  
*Professor of Philosophy; Department Chairman*  
B.A., Greenville College, 1940; B.D., McCormick Theological Seminary, 1943; Th.D., Northern Baptist Theological Seminary, 1947. At SPC since 1964.
- IRA L. JONES, M.A.  
*Assistant Professor of Music*  
B.A., University of Washington, 1951; M.A., 1960; Master classes with Pierre Bernac, Mme. Pazmor, John Wustman, Gwendolyn Koldovsky; Advanced study at Meadowbrook School of Music (summer 1968); Voice and vocal pedagogy with William Vennard. At SPC since 1964.
- FRANK J. KLINE, Th.M., Ed.D.  
*Dean, School of Religion; Professor of*  
*Missions and Religion*  
B.A., Greenville College, 1933; S.T.B., New York Theological Seminary, 1936; Th.M., Princeton Theological Seminary, 1943; Ed.D., Columbia University, 1945; Research Fellow, Yale Divinity School, 1964.  
At SPC since 1965.
- DOROTHY BOYD KREIDER, B.A., B.S.  
*Associate Professor of Home Economics;*  
*Department Chairman*  
B.A., Seattle Pacific College, 1933; B.A. in Ed., 1934; B.S., University of Illinois, 1954. At SPC 1940-41, 1942-44, and since 1945.
- ORA KARL KRIENKE, JR., M.A., M.S.  
*Professor of Mathematics, Physics and Philosophy;*  
*Physics Department Chairman*  
Graduate, Simpson Bible Institute, 1951; B.S., Seattle Pacific College, 1953; M.A., 1955; M.S. (Physics), University of Washington, 1959; M.S. (Astronomy), 1969. National Science Foundation, Science Faculty Fellow, University of Washington, 1961-62. At SPC part time 1953-56; full time since 1956.
- ROBERT D. LARSON, M.A.  
*Assistant Professor of Sociology*  
B.A., Augsburg College, 1956; M.A., University of Washington, 1966. At SPC part time 1966-67; full time since 1967.
- VIVIAN LARSON, M.A.  
*Professor of Education*  
B.A., Bethany-Peniel College, 1931; M.A., University of Iowa, 1938. At SPC since 1940.
- LYLBURN THOMAS LAYER, B.Mus.  
*Instructor in Music*  
B.Mus., University of Southern California, 1964.  
At SPC since 1969.
- FRANK LEDDUSIRE, B.A., B.D.  
*Associate Professor of Russian and Religion;*  
*Modern Foreign Language Department Chairman*  
B.A., Seattle Pacific College, 1956; B.D., Asbury Theological Seminary, 1958; Fellow in Slavic Linguistics, University of Washington, 1966-69. At SPC 1962-66 and since 1969.
- BETTY LOUISE LEECH, M.A.  
*Assistant Professor of Education*  
B.A., Central Michigan University, 1948; M.A., University of Michigan, 1954. At SPC since 1968.
- WINIFRED J. LEIGHTON, M.A.  
*Professor of Music*  
B.M., University of Washington, 1932; M.A., 1939.  
At SPC since 1947.
- PAUL A. LEPSE, Ph.D.  
*Associate Professor of Chemistry*  
B.S., Seattle Pacific College, 1958; Ph.D., University of Washington, 1961; National Science Foundation Post-doctoral Fellow, University of Munich, 1961-62. At SPC since 1962.

- WESLEY E. LINGREN, Ph.D.  
*Professor of Chemistry; Department Chairman; Director of Honors*  
 B.S., Seattle Pacific College, 1952; M.S., University of Washington, 1954; Ph.D., 1962. National Science Foundation Science Faculty Fellow, Yale University, 1967-68. At SPC part time 1961-62; full time since 1962.
- EDWIN L. LYLE, Ed.D.  
*Dean, School of Education; Professor of Education*  
 B.A., Seattle Pacific College, 1949; Ed.M., University of Oklahoma, 1950; Certificate of Advanced Study in Human Development and Educational Measurements, Harvard University, 1954; Ed.D., University of Oklahoma, 1956. At SPC since 1964.
- MICHAEL H. MACDONALD, M.A.  
*Assistant Professor of German and Philosophy*  
 B.A., Pacific Lutheran University, 1963; M.A., University of Washington, 1964. At SPC since 1967.
- MARCILE C. MACK, M.Mus.  
*Associate Professor of Music*  
 B.Mus., Cleveland Institute of Music, 1942; M.Mus., 1946. At SPC since 1955.
- PHILIP J. MACK, M.Mus.  
*Associate Professor of Music*  
 B.S., Wheaton College, 1936; B.Mus., Cleveland Institute of Music, 1946; M.Mus., Eastman School of Music, 1952. At SPC since 1955.
- WAYNE McCOWN, M.A., Th.D.  
*Assistant Professor of Religion and Classical Languages*  
 B.A., Seattle Pacific College, 1963; B.D., Asbury Theological Seminary, 1966; M.A., University of Washington, 1967; Th.M., Union Theological Seminary, 1968; Th.D., 1970. At SPC since 1970.
- PEARL McELHERAN, M.A.  
*Instructor in English*  
 B.A., Seattle Pacific College, 1963; M.A., University of Washington, 1967. At SPC since 1966.
- DONALD McNICHOLS, M.A.  
*Professor of English*  
 B.A., Los Angeles Pacific College, 1941; B.A., University of Southern California, 1947; M.A., 1950; Graduate Research, Huntington Library, 1949-50, 1966. At SPC since 1955.
- LARRY T. METCALF, M.F.A.  
*Assistant Professor of Art; Department Chairman*  
 B.A. in Ed., University of Washington, 1962; M.F.A., 1967. At SPC since 1964.
- MENDAL B. MILLER, M.A., LL.D.  
*Professor of Economics and Business; Department Chairman*  
 B.A., Greenville College, 1930; M.A., University of Southern California, 1936; LL.D., Seattle Pacific College, 1946. At SPC since 1953.
- LLOYD J. MONTZINGO, Ph.D.  
*Professor of Mathematics; Department Chairman*  
 B.A., Houghton College, 1949; M.A., State University of New York at Buffalo, 1951; Ph.D., 1961; National Science Foundation Fellow, University of Washington, 1970-71. At SPC since 1962.
- HELEN MORROW, M.N.  
*Instructor in Nursing*  
 Diploma, Methodist Hospital of Dallas, 1953; B.S.N., University of Washington, 1970; M.N., 1971. At SPC since 1971.
- HUGH NUTLEY, Ph.D.  
*Associate Professor of Physics*  
 B.S., Massachusetts Institute of Technology, 1954; Ph.D., University of Washington, 1960. At SPC since 1966.
- ANNALEE R. OAKES, M.A., R.N.  
*Instructor in Nursing*  
 Diploma, St. Lukes Methodist School of Nursing; B.S.N., University of Washington, 1970; M.A., 1971. At SPC since 1971.
- CHARLES A. PAETH, M.S.  
*Director of Academic Advising; Assistant Professor of Psychology*  
 B.A., Washington State University, 1942; M.S., 1947. At SPC since 1970.
- RONALD B. PALMER, M.A.  
*Assistant Professor of History*  
 B.A., Seattle Pacific College, 1962; Danforth Fellow, 1962-66; M.A., Stanford University, 1964. At SPC since 1970.
- RONALD CARL PHILLIPS, M.S.  
*Professor of Biology*  
 B.S., Wheaton College, 1954; M.S., Florida State University, 1956. At SPC since 1961.
- JAMES W. PLETT, M.A.  
*Instructor in English*  
 B.A., Seattle Pacific College, 1965; M.A., University of Washington, 1967. At SPC part time 1966-67; full time since 1967. (On leave, 1971-72.)
- WILLIAM D. REARICK, Ed.D.  
*Dean of Academic Administration; Professor of Education*  
 B.A., Greenville College, 1948; M.A., Los Angeles State College, 1958; Ed.D., University of Washington, 1969. At SPC since 1960.
- CARL H. REED, Ph.D.  
*Professor of Music*  
 B.A., Seattle Pacific College, 1951; M.A., University of Washington, 1956; Ph.D., 1966. At SPC since 1957. Visiting Professor of Music, Chapman College-World Campus Afloat, Spring Semester, 1969.
- ALICE M. REID, M.R.E.  
*Associate Professor of Religion*  
 B.A., Wheaton College, 1934; M.R.E., New York Theological Seminary, 1943. At SPC since 1960.
- CLIFFORD E. ROLOFF, M.A.  
*Professor of History*  
 B.A., Seattle Pacific College, 1931; M.A., University of Washington, 1932. At SPC since 1944.
- PAUL F. ROSSER, M.A.  
*Professor of Speech*  
 B.S., Seattle Pacific College, 1940; M.A., University of Washington, 1951. At SPC since 1948.
- WADAD A. SABA, M.A.  
*Assistant Professor of Music*  
 B.A., Whitworth College, 1959; M.A., University of Washington, 1964. At SPC part time 1962-64; full time since 1964.
- DOLORES L. SANDERS, M.A.  
*Associate Professor of Spanish*  
 B.A., University of Iowa, 1940; M.A., University of Washington, 1950; Graduate studies, University of Mexico, 1951; Fulbright Seminar, Colombia, South America, 1959. At SPC since 1949.
- PAUL L. SCHWADA, Ph.D.  
*Professor of Education*  
 B.S. Educ., Northeast Missouri State, 1938; Th.B., Olivet Nazarene College, 1941; M.A., University of Chicago, 1943; Ph.D., University of Illinois, 1964. At SPC since 1970.
- ROSS FRANKLIN SHAW, Ph.D.  
*Professor of Biology*  
 B.S., Seattle Pacific College, 1952; M.A., University of South Dakota, 1958; Ph.D., University of Iowa, 1961. National Science Foundation Science Faculty Fellow, University of Iowa, 1960-61. At SPC since 1965.
- CHARLES F. SHOCKEY, Ed.D.  
*Professor of Biology; Acting Department Chairman*  
 B.S., University of Washington, 1935; M.S., Oregon State College, 1940; Ed.D., University of Michigan, 1948. At SPC 1935-36, 1941-42 and since 1944.
- EDWIN SILVA, M.S.  
*Assistant Professor of Education*  
 B.A., University of Washington, 1949; M.S., University of Oregon, 1966; Ed.D., 1971. At SPC since 1970.
- BERNICE FERRIER SMITH, B.A., B.L.S.  
*Associate Director of Learning Resources; Assistant Professor of History*  
 B.A., University of Washington, 1936; B.L.S., 1937. At SPC since 1972.
- PETER E. SMITH, M.S.Ed.  
*Assistant Professor of Education; Director of the Audio-Visual Center*  
 B.S. Ed., Oregon College of Education, 1962; M.S. Ed., 1966; Ph.C., University of Washington, 1970. At SPC since 1970.
- ROBERT D. SNIDER, M.A.  
*Instructor in Political Science*  
 B.A., College of Idaho, 1959; M.A., University of Chicago, 1963. At SPC since 1969.
- DONALD M. STEVENS, Ph.D.  
*Associate Professor of Psychology; Director of Counseling Services*  
 B.A., Roberts Wesleyan College, 1954; M.A., Michigan State University, 1960; Ph.D., University of Washington, 1967. At SPC since 1967.
- HELEN D. STRICKLAND, B.A.  
*Director of Learning Resources; Associate Professor of Chemistry*  
 B.A., Hiram College, 1926; Certificate in Librarianship, St. Louis Library School, 1928; Carnegie Fellow, University of Chicago, 1932-34. At SPC since 1969.
- SHARON E. STROBLE, M.S.  
*Assistant Professor of Physical Education*  
 B.S., Seattle Pacific College, 1959; M.S., University of North Carolina at Greensboro, 1965. At SPC since 1964.
- KEITH M. SWAGERTY, B.A.  
*Instructor in Physical Education*  
 B.A., University of Pacific, 1967. At SPC since 1970.
- ROY SWANSTROM, Ph.D.  
*Professor of History; Department Chairman*  
 B.A., Seattle Pacific College, 1947; M.A., University of California, 1949; Ph.D., 1959. At SPC 1949-51 and since 1956.
- MYRTHALYNE C. THOMPSON, Ph.D.  
*Professor of Psychology; Acting Department Chairman*  
 B.S., Akron University, 1953; M.S., 1955; Ph.D., Purdue University, 1958. At SPC since 1968.
- DELLA TIEDE, M.N.  
*Assistant Professor of Nursing*  
 B.S. in Nursing, University of Washington, 1951; M.N., 1967. At SPC since 1966.

KENNETH D. TOLLEFSON, M.A.  
*Assistant Professor of Anthropology;*  
*Head Resident*  
 B.A., Manhattan Bible College, 1958; B.D., Asbury  
 Theological Seminary, 1961; M.A., University of  
 Oklahoma, 1965. At SPC since 1965.

MARY J. VERVER, B.A.  
*Lecturer in Home Economics*  
 B.A., Seattle Pacific College, 1968; Vocational  
 Certification, University of Washington, 1969.  
 At SPC since 1971.

F. WESLEY WALLS, Ph.D.  
*Dean of Academic Development; Professor of*  
*Political Science; Department Chairman*  
 B.A., Greenville College, 1937; M.A., University of  
 Washington, 1943; Ph.D., 1958. At SPC 1941-67 and  
 since 1969.

RAYMOND J. WELLS, Ph.D.  
*Professor of Philosophy*  
 B.A., Seattle Pacific College, 1946; S.T.B., New York  
 Theological Seminary, 1949; S.T.M., 1950; Ph.D.,  
 University of Edinburgh, Scotland, 1955.  
 At SPC since 1967.

RUBY M. WENDFELDT, M.N., R.N.  
*Assistant Professor of Nursing*  
 B.S.N., Gustavus Adolphus College, 1964; M.N., Uni-  
 versity of Washington, 1965. At SPC since 1966.  
 (On leave, 1971-72.)

WINIFRED E. WETER, Ph.D.  
*Professor of Classical Languages;*  
*Department Chairman*  
 B.A., University of Oregon, 1929; M.A., University of  
 Chicago, 1930; Ph.D., 1933. At SPC since 1935.

DOROTHY A. WIEBE, M.A.  
*Assistant Professor of Education*  
 B.A., Greenville College, 1939; M.A., University of  
 Washington, 1963. At SPC since 1957.

HAROLD T. WIEBE, Ph.D.  
*Professor of Biology*  
 B.A., Greenville College, 1939; M.A., University of  
 Illinois, 1940; Ph.D., 1950. At SPC since 1952.

DICK A. WOOD, M.A.  
*Associate Professor of Mathematics*  
 B.S., California State College at Long Beach, 1961; M.A.,  
 1962. At SPC 1963-65 and since 1968.

MARGARET S. WOODS, M.Ed.  
*Associate Professor of Education*  
 B.A., Washington State University, 1932; M.Ed., Uni-  
 versity of Washington, 1954. At SPC part time  
 1958-67; full time since 1967.

DAVID U. L. YU, Ph.D.  
*Associate Professor of Physics*  
 B.S., Seattle Pacific College, 1961; Ph.D., University of  
 Washington, 1964. At SPC since 1967.

## Part-time Lecturers

RUSSELL J. ANDERSON, M.A.  
*Part-time Lecturer in History*  
 A.B., University of Kansas, 1925; M.A., 1931. At SPC  
 since 1971.

BURTON A. APPELO, M.B.A.  
*Part-time Lecturer in Economics and Business*  
 M.B.A., University of Washington, 1964. With firm of  
 Yates, Wood and MacDonald, Realtors. At SPC since  
 1965 (alternate years).

LAURA ARKSEY, M.Libr.  
*Part-time Librarian*  
 B.A., Whitworth College, 1957; M.Libr., University of  
 Washington, 1967. Librarian, Chapman College-World  
 Campus Afloat, Fall Semester 1970 and 1971.  
 At SPC since 1967.

PHILIP F. ASHTON, Ph.D., L.H.D.  
*Part-time Lecturer in Psychology;*  
*Professor of Psychology Emeritus*  
 B.A., University of Washington, 1927; M.A., 1929;  
 Ph.D., 1937; L.H.D., Seattle Pacific College, 1971.  
 At SPC 1929-42 and since 1944.

RICHARD ASHTON, M.Ed.  
*Part-time Lecturer in Education*  
 B.A., Seattle Pacific College, 1946; M.Ed., University of  
 Washington, 1960. At SPC since 1962.

DAVID BAERTSCHY, M.S.  
*Part-time Instructor in Engineering Science;*  
*Acting Director of Data Processing*  
 B.S., Seattle Pacific College, 1963; M.S., 1969. At  
 SPC since 1968.

MARKY BARRETT, B.S., C.L.U.  
*Part-time Lecturer in Economics and Business*  
 B.S., Seattle Pacific College, 1949; C.L.U., American  
 College of Life Underwriters, 1958. At SPC since 1966.

R. CLIFTON BATES, Ph.D.  
*Part-time Lecturer in Education*  
 B.A. in Ed., Seattle Pacific College, 1958; M.A., Uni-  
 versity of Northern Colorado, 1964; Ph.D., Ohio  
 University, 1969. At SPC since 1969.

ROBERT D. BENNETT, M.S.  
*Part-time Lecturer in Religion*  
 B.D., Western Evangelical Seminary, 1952; M.S., Uni-  
 versity of Oregon, 1960. At SPC since 1969.

JOAN BLOEDEL, M.F.A.  
*Part-time Lecturer in Art*  
 B.A., Connecticut College, 1964; Yale University,  
 1964-65; M.A., University of Iowa, 1967; M.F.A., 1968.  
 At SPC since 1970.

CAROL BRITAIN, B.S. in Nursing, R.N.  
*Part-time Lecturer in Nursing*  
 Whitworth College, 1960-61; Diploma, Deaconess School  
 of Nursing, 1964; B.S. in Nursing, University of  
 Washington, 1966. At SPC since 1970.

JANET B. BUCK, B.S.  
*Part-time Lecturer in Mathematics*  
 B.S., Seattle Pacific College, 1955. At SPC since 1957.

ROBERT BUNE, M.A.  
*Part-time Lecturer in Music*  
 B.A., Olaf College, 1952; M.A., University of Minnesota,  
 1956. At SPC since 1970.

HELEN BURGESS, M.Mus.  
*Part-time Lecturer in Music*  
 B.Mus., Wheaton College, 1946; M.Mus., American  
 Conservatory, 1948. At SPC since 1969.

FLORA M. BURNS, B.A.  
*Part-time Lecturer in Home Economics*  
 B.A., University of Washington, 1955. At SPC since 1955.

DON BUSHELL, M.A. in Ed.  
*Part-time Lecturer in Music*  
 B.A. in Ed., University of Washington, 1931; M.A. in Ed.,  
 1941. At SPC since 1971.

MYRNA CAPP, B.A.  
*Part-time Lecturer in Music*  
 B.A., Seattle Pacific College, 1959. At SPC since 1968.

KENNETH A. CLOUD, B.A.  
*Part-time Lecturer in Music*  
 B.A. in Mus. Ed., University of Washington, 1942.  
 At SPC since 1971.

MARILYN CRAMER, B.A.  
*Part-time Lecturer in Home Economics*  
 B.A., Walla Walla College, 1955. At SPC since 1971.

INGA-LISA FRANZON, B.A.  
*Part-time Lecturer in Physical Education*  
 Graduate, Arvedsons Gymnastic Institute, Stockholm,  
 Sweden, 1936. B.A., University of Washington, 1966.  
 At SPC part time 1958-59, 65-67; full time 1959-65  
 and 1967-71.

MARY E. FRY, B.S., R.N.  
*Part-time Lecturer in Nursing*  
 R.N., Emanuel Hospital School of Nursing, 1963;  
 B.S., University of Washington, 1966. At SPC since 1972.

OLIVE M. GOODMAN, M.A.  
*Part-time Lecturer in Education*  
 A.B., Stanford University, 1933; M.A., 1933. At SPC  
 1953-58 and since 1971.

STEVE GOUGH, B.S.  
*Part-time Lecturer in Physical Education;*  
*Intramural Director; Head Resident*  
 B.S., Seattle Pacific College, 1971. At SPC since 1971.

ROBERT LEROY GUNTER, J.D.  
*Part-time Lecturer in Political Science*  
 B.A., Seattle Pacific College, 1967; J.D., University of  
 Washington, 1970. At SPC since 1972.

RICHARD HAMMOND, M.Libr.  
*Part-time Lecturer in Librarianship*  
 B.Mus., University of Puget Sound, 1950; B.Ed., 1951;  
 M.Libr., University of Washington, 1955. At SPC  
 since 1965.

ELIZABETH HANSEN  
*Part-time Lecturer in Journalism*  
 At SPC since 1971.

RUTH HANSEN, B.A.  
*Part-time Lecturer in Education*  
 B.A., Seattle Pacific College, 1950. At SPC since 1965.

DAVID HARRIS, M.F.A.  
*Part-time Lecturer in Art*  
 B.F.A., University of Washington, 1968; M.F.A., 1970.  
 At SPC since 1970.

PAUL W. HASS, B.A. in Mus.Ed.  
*Part-time Lecturer in Music*  
 B.A. in Mus.Ed., Washington State University, 1957.  
 At SPC since 1972.

SALLY HASSELBRACK, M.S.  
*Part-time Instructor in Home Economics*  
 B.A., Emanuel Missionary College, 1957;  
 M.S., University of Wisconsin, 1962. At SPC since 1969.

NGAIRE W. HIXSON, M.F.A.  
*Part-time Lecturer in Art*  
 B.A., University of Washington, 1965; M.F.A., 1967.  
 At SPC since 1967.

JERRY D. HUGGINS, M.S.  
*Part-time Lecturer in Nursing*  
 B.S., University of Washington, 1962; M.S., 1969.  
 At SPC since 1968.

LEWIS HYSLIP, M.A.  
*Part-time Lecturer in Religion*  
 B.Th., Warner Pacific College, 1959; M.A., Azusa Pacific  
 College, 1970. At SPC since 1970.

ANN CHRISTINA JENNINGS, M.Ed.  
*Part-time Lecturer in Education, Geography*  
 B.A., Whitworth College, 1959; M.Ed., University of Washington, 1968. At SPC since 1969.

WINSTON A. JOHNSON, Mus.M., M.S.M., A.A.G.O.  
*Part-time Lecturer in Music*  
 Mus.B., American Conservatory of Music, Chicago, 1937; Mus.M., 1941; M.S.M., School of Sacred Music, Union Theological Seminary, New York, 1951; Associate in the American Guild of Organists, 1949. At SPC since 1952.

LEON C. JONES, M.S.W.  
*Part-time Lecturer in History and Sociology*  
 B.A., Seattle Pacific College, 1962; M.S.W., University of Washington, 1968. At SPC since 1968.

MARIE-PIERRE KOBAN, Ph.D.  
*Part-time Lecturer in French*  
 B.A., University of Arkansas, 1958; M.A., 1959; Ph.D., University of Washington, 1971. At SPC since 1972.

HARRIETT KOVACEVICH, B.A.  
*Part-time Lecturer in Education*  
 B.A., Whitman College, 1955. At SPC since 1966.

HENRY LITTLEJOHN, M.A., Th.M.  
*Part-time Lecturer in History and Religion*  
 B.A., Seattle Pacific College, 1949; B.D., San Francisco Theological Seminary, 1952; M.A., University of California, 1953; Th.M., Princeton Theological Seminary, 1959. At SPC since 1970.

DONALD MARDOCK, B.A.  
*Part-time Lecturer in Religion*  
 B.A., Friends University, 1951. At SPC since 1971.

DARLEEN McCOWN, M.N.  
*Part-time Lecturer in Nursing*  
 B.S., Seattle Pacific College, 1964; B.S., University of Washington, 1964; M.N., 1967. At SPC since 1972.

MARGARET M. McCRATH, M.Ed.  
*Part-time Lecturer in Education*  
 A.B., Wheaton College, 1960; M.Ed., University of Bridgeport, 1963. At SPC since 1970.

SANDRA McCREERY, M.A.  
*Part-time Lecturer in English*  
 B.A., University of Southern California, 1964; M.A., 1967. At SPC since 1971.

RAY MILLER, M.Ed.  
*Part-time Lecturer in Education*  
 B.A., Seattle Pacific College, 1956; M.Ed., School of Psychological Services, University of Oregon, 1963. At SPC since 1966.

NILMAR MOLVIK, M.Ed.  
*Part-time Lecturer in Education*  
 B.S., Seattle Pacific College, 1955; M.Ed., 1963. At SPC since 1964.

MARY MOSES, B.S.N., R.N.  
*Part-time Lecturer in Nursing*  
 B.S.N., Seattle Pacific College, 1971. At SPC since 1971.

LARRY NOEL, M.A.  
*Part-time Lecturer in Education*  
 B.A., Seattle Pacific College, 1957; M.A. in Ed., University of Illinois, 1965. At SPC since 1968.

JANET FRANCINE PAYNE, M.N.  
*Part-time Lecturer in Nursing*  
 B.S. in N., Emory University School of Nursing, 1970; M.N., University of Washington, 1971. At SPC since 1972.

MARILYN POYSKY, M.C.  
*Part-time Lecturer in Nursing*  
 B.S. in Nursing, University of Washington, 1964; M.S. in Nursing, University of California, 1968. At SPC since 1968.

JOHN PUTNAM, B.S.  
*Part-time Lecturer in Education*  
 B.S., University of Washington, 1947. At SPC since 1972.

MARCIA REED, B.A. in Mus., M.Libr.  
*Part-time Librarian*  
 B.A. in Mus., University of Washington, 1951; M.Libr., 1953. At SPC since 1961.

JOAN REESE, B.S.N., R.N.  
*Part-time Lecturer in Nursing*  
 B.S.N., University of Washington, 1963. At SPC since 1971.

GEORGE SCRANTON, M.A.  
*Part-time Lecturer in Speech*  
 B.A., Seattle Pacific College, 1968; M.A., 1971. At SPC since 1970.

KATHIE SHARP, B.A.  
*Part-time Lecturer in Music*  
 B.A., Washington State University, 1968. At SPC since 1972.

THOMAS WILLIAM SINE, M.A.  
*Part-time Lecturer in Sociology*  
 B.A., Cascade College, 1958; M.A., San Jose State College, 1968. At SPC since 1970.

RICHARD SKERLONG, M.Mus.  
*Part-time Lecturer in Music*  
 B.Mus., Oberlin, 1953; M.Mus., Eastman School of Music, University of Rochester, 1956. At SPC since 1971.

KENNETH W. SMITH, B.S.ChE., B.S.I.E.  
*Part-time Lecturer in Economics and Business*  
 B.S. Ch.E., University of Washington, 1960; B.S.I.E., 1960. At SPC since 1971.

ANITA STEURY, M.A.  
*Part-time Librarian*  
 B.A., Seattle Pacific College, 1965; M.A., 1972. At SPC since 1971.

LAVERNE SUGAMELE, M.Div.  
*Part-time Lecturer in Music*  
 B.A., University of Washington, 1952; M.Div., Princeton Seminary, 1955. At SPC since 1971.

J. RONALD TODD, B.A., B.S. in L.S.  
*Reference Librarian*  
 B.A., University of British Columbia, 1929; B.S. in L.S., University of Washington, 1930. At SPC since 1971.

RALPH G. TURNBULL, M.A., M.Th., D.D.  
*Part-time Lecturer in Religion*  
 B.D., United College, University of Manitoba; M.A., University of Edinburgh; M.Th., Princeton Seminary; D.D., Whitworth College. At SPC since 1961.

CARLETON WHELCHER, B.Mus.  
*Part-time Lecturer in Music*  
 B.Mus., New England Conservatory, 1964. At SPC since 1969.

PHILLIP WHITMARSH, M.Ed.  
*Part-time Lecturer in Psychology*  
 Diploma, Prairie Bible Institute, 1957; B.A., Seattle Pacific College, 1969; M.Ed., University of Washington, 1971. At SPC since 1971.

## Professional and Administrative Staff

JON ADAMS, M.B.A.  
*Director of Food Services*  
 B.A., Whitworth College, 1960; M.B.A., University of Oregon, 1968. At SPC since 1971.

DAVID BAERTSCHY, M.S.  
*Acting Director of Data Processing*  
*Part-time Instructor in Engineering Science;*  
 B.S., Seattle Pacific College, 1963; M.S., 1969. At SPC since 1968.

DWAIN LEROY BASSETT, B.A., B.D.  
*Director of Financial Aids and Placement*  
 B.A., Cascade College, 1949; B.D., Western Evangelical Seminary, 1952. At SPC since 1963.

WARREN (BUS) BERRY  
*Director of Corporate Relations*  
 At SPC since 1968.

ELMER W. BISSET, M.Ed.  
*Director of Casey Campus;*  
*Environmental Studies Coordinator*  
 B.A., Seattle Pacific College, 1950; M.Ed., 1965. At SPC since 1971.

JOY DEWEESE, B.A.  
*Admissions Counselor*  
 B.A., Seattle Pacific College, 1971. At SPC since 1971.

JOHN L. GLANCY, B.A.  
*Admissions Counselor*  
 B.A., Seattle Pacific College, 1970. At SPC since 1970.

MABLE A. HASLAM  
*Director of Church Relations*  
 At SPC 1964-68 and since 1969.

JOHN HECK, B.A., D.D.  
*Director of Deferred Giving*  
 B.A., Northwest College, 1955; D.D., Nevada Missionary Fellowship, 1969. At SPC since 1970.

ORAL V. HEMRY, M.A.  
*Director of Staff Personnel*  
 B.A., Seattle Pacific College, 1931; M.A., University of Washington, 1932. At SPC since 1956.

JAMES H. HURD  
*Bookstore Manager*  
 At SPC since 1965.

STERLING V. JENSEN  
*Plant Manager*  
 At SPC since 1970.

RONALD S. KEELING, B.A.  
*Admissions Counselor*  
 B.A., Seattle Pacific College, 1970. At SPC since 1970.

DOUGLAS W. MARGESON, B.A.  
*College Editor*  
 B.A., University of Washington, 1968. At SPC since 1971.

KAREN McMULLEN  
*Admissions Counselor*  
 At SPC since 1967.

SHIRLEY A. ORT, B.A.  
*Associate Dean of Students*  
 B.A., Spring Arbor College, 1968. At SPC 1968-69 and since 1970.

HAROLD A. SHARPE, B.S.  
*Business Manager*  
 B.S., University of Washington, 1934. At SPC since 1969.

ANN CHRISTINA JENNINGS, M.Ed.  
*Part-time Lecturer in Education, Geography*  
 B.A., Whitworth College, 1959; M.Ed., University of Washington, 1968. At SPC since 1969.

WINSTON A. JOHNSON, Mus.M., M.S.M., A.A.G.O.  
*Part-time Lecturer in Music*  
 Mus.B., American Conservatory of Music, Chicago, 1937; Mus.M., 1941; M.S.M., School of Sacred Music, Union Theological Seminary, New York, 1951; Associate in the American Guild of Organists, 1949. At SPC since 1952.

LEON C. JONES, M.S.W.  
*Part-time Lecturer in History and Sociology*  
 B.A., Seattle Pacific College, 1962; M.S.W., University of Washington, 1968. At SPC since 1968.

MARIE-PIERRE KOBAN, Ph.D.  
*Part-time Lecturer in French*  
 B.A., University of Arkansas, 1958; M.A., 1959; Ph.D., University of Washington, 1971. At SPC since 1972.

HARRIETT KOVACEVICH, B.A.  
*Part-time Lecturer in Education*  
 B.A., Whitman College, 1955. At SPC since 1966.

HENRY LITTLEJOHN, M.A., Th.M.  
*Part-time Lecturer in History and Religion*  
 B.A., Seattle Pacific College, 1949; B.D., San Francisco Theological Seminary, 1952; M.A., University of California, 1953; Th.M., Princeton Theological Seminary, 1959. At SPC since 1970.

DONALD MARDOCK, B.A.  
*Part-time Lecturer in Religion*  
 B.A., Friends University, 1951. At SPC since 1971.

DARLEEN McCOWN, M.N.  
*Part-time Lecturer in Nursing*  
 B.S., Seattle Pacific College, 1964; B.S., University of Washington, 1964; M.N., 1967. At SPC since 1972.

MARGARET M. McCRATH, M.Ed.  
*Part-time Lecturer in Education*  
 A.B., Wheaton College, 1960; M.Ed., University of Bridgeport, 1963. At SPC since 1970.

SANDRA McCREERY, M.A.  
*Part-time Lecturer in English*  
 B.A., University of Southern California, 1964; M.A., 1967. At SPC since 1971.

RAY MILLER, M.Ed.  
*Part-time Lecturer in Education*  
 B.A., Seattle Pacific College, 1956; M.Ed., School of Psychological Services, University of Oregon, 1963. At SPC since 1966.

NILMAR MOLVIK, M.Ed.  
*Part-time Lecturer in Education*  
 B.S., Seattle Pacific College, 1955; M.Ed., 1963. At SPC since 1964.

MARY MOSES, B.S.N., R.N.  
*Part-time Lecturer in Nursing*  
 B.S.N., Seattle Pacific College, 1971. At SPC since 1971.

LARRY NOEL, M.A.  
*Part-time Lecturer in Education*  
 B.A., Seattle Pacific College, 1957; M.A. in Ed., University of Illinois, 1965. At SPC since 1968.

JANET FRANCINE PAYNE, M.N.  
*Part-time Lecturer in Nursing*  
 B.S. in N., Emory University School of Nursing, 1970; M.N., University of Washington, 1971. At SPC since 1972.

MARILYN POYSKY, M.C.  
*Part-time Lecturer in Nursing*  
 B.S. in Nursing, University of Washington, 1964; M.S. in Nursing, University of California, 1968. At SPC since 1968.

JOHN PUTNAM, B.S.  
*Part-time Lecturer in Education*  
 B.S., University of Washington, 1947. At SPC since 1972.

MARCIA REED, B.A. in Mus., M.Lib.  
*Part-time Librarian*  
 B.A. in Mus., University of Washington, 1951; M.Lib., 1953. At SPC since 1961.

JOAN REESE, B.S.N., R.N.  
*Part-time Lecturer in Nursing*  
 B.S.N., University of Washington, 1963. At SPC since 1971.

GEORGE SCRANTON, M.A.  
*Part-time Lecturer in Speech*  
 B.A., Seattle Pacific College, 1968; M.A., 1971. At SPC since 1970.

KATHIE SHARP, B.A.  
*Part-time Lecturer in Music*  
 B.A., Washington State University, 1968. At SPC since 1972.

THOMAS WILLIAM SINE, M.A.  
*Part-time Lecturer in Sociology*  
 B.A., Cascade College, 1958; M.A., San Jose State College, 1968. At SPC since 1970.

RICHARD SKERLONG, M.Mus.  
*Part-time Lecturer in Music*  
 B.Mus., Oberlin, 1953; M.Mus., Eastman School of Music, University of Rochester, 1956. At SPC since 1971.

KENNETH W. SMITH, B.S.ChE., B.S.I.E.  
*Part-time Lecturer in Economics and Business*  
 B.S. Ch.E., University of Washington, 1960; B.S.I.E., 1960. At SPC since 1971.

ANITA STEURY, M.A.  
*Part-time Librarian*  
 B.A., Seattle Pacific College, 1965; M.A., 1972. At SPC since 1971.

LAVERNE SUGAMELE, M.Div.  
*Part-time Lecturer in Music*  
 B.A., University of Washington, 1952; M.Div., Princeton Seminary, 1955. At SPC since 1971.

J. RONALD TODD, B.A., B.S. in L.S.  
*Reference Librarian*  
 B.A., University of British Columbia, 1929; B.S. in L.S., University of Washington, 1930. At SPC since 1971.

RALPH G. TURNBULL, M.A., M.Th., D.D.  
*Part-time Lecturer in Religion*  
 B.D., United College, University of Manitoba; M.A., University of Edinburgh; M.Th., Princeton Seminary; D.D., Whitworth College. At SPC since 1961.

CARLETON WHELCHER, B.Mus.  
*Part-time Lecturer in Music*  
 B.Mus., New England Conservatory, 1964. At SPC since 1969.

PHILLIP WHITMARSH, M.Ed.  
*Part-time Lecturer in Psychology*  
 Diploma, Prairie Bible Institute, 1957; B.A., Seattle Pacific College, 1969; M.Ed., University of Washington, 1971. At SPC since 1971.

## Professional and Administrative Staff

JON ADAMS, M.B.A.  
*Director of Food Services*  
 B.A., Whitworth College, 1960; M.B.A., University of Oregon, 1968. At SPC since 1971.

DAVID BAERTSCHY, M.S.  
*Acting Director of Data Processing*  
*Part-time Instructor in Engineering Science;*  
 B.S., Seattle Pacific College, 1963; M.S., 1969. At SPC since 1968.

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*Business Manager*  
 B.S., University of Washington, 1934. At SPC since 1969.



DOROTHY ROSE MARY SMITH, B.A.  
*Head Nurse, Student Health Center*  
 R.N., Hamilton Civic Hospital, Hamilton, Ontario, 1963;  
 B.A., Seattle Pacific College, 1966. At SPC since 1966.

AUDREY L. TAYLOR  
*Coffee Shop Manager*  
 At SPC since 1959.

CECILIA A. TINDALL  
*Executive Assistant to the President*  
 At SPC since 1963.

OPAL TOWNSEND, B.A.  
*International Students Adviser;*  
*Head Resident*  
 B.A., Seattle Pacific College, 1962. At SPC since 1957.

DONALD M. VESEY, M.A.  
*Director of Language Laboratory; Assistant to the*  
*Director of Registration and Records*  
 B.A., Los Angeles Pacific College, 1947; B.D., Asbury  
 Theological Seminary, 1956; M.A., University of  
 Washington, 1968. At SPC since 1965.

DOROTHY F. WILLIAMSON, B.A.  
*Assistant Director of Student*  
*Financial Aid Services*  
 B.A., Seattle Pacific College, 1939. At SPC 1939-44  
 and since 1960.

WESLEY K. WILLMER, B.A.  
*Associate Dean of Students*  
 B.A., Seattle Pacific College, 1971. At SPC since 1971.

## Residence Hall Staff (1971-72)

LOUISE AUSTIN  
*Ass't Head Resident, Marston-Watson*  
*Residence Hall*

SHEILA FROST  
*Ass't Head Resident, Upper Residence Hall*

STEVE GOUGH  
*Head Resident, Moyer Residence Hall*

JERRY L. JOHNSON, A.B., M.B.A.  
*Head Resident, Upper Residence Hall*

KAREN KORTHASE  
*Head Resident, Upper Residence Hall*

KENNETH D. TOLLEFSON, M.A.  
*Head Resident, Hill Residence Hall*

OPAL TOWNSEND, B.A.  
*Head Resident, Marston-Watson Residence Halls*

SHARON WILLMER, B.S.  
*Head Resident, Hill Residence Hall*

## Alumni Association

The SPC Alumni Association is a voluntary organization of all former students and graduates. Its executive board of eight members is elected by ballot through the mail. The Association publishes a quarterly, "Seattle Pacific College Alumni Magazine." Alumni offices are located in Demaray Hall. All alumni are urged to keep the Association informed of changes in address and employment status, births, marriages and any other information of interest to their fellow members.

Area chapter meetings are held throughout the nation under the leadership of area alumni chairmen. The Association assists the college through booster clubs, selection of new students and campus volunteer services. Each graduating class, led by a class chairman, participates in "Roll Call," the annual fund drive for the benefit of the college. The Alumni Executive Director is salaried by the college for coordination of the Association's activities.

Brooks Eaker '55	President
Vern Archer '37	Immediate Past-President
Forrest Walls '60	Vice-President
LaVonne Steiner '66	Secretary
Hope Fakkema '64	Member-at-large
William McKindley '53	Member-at-large
Marvin Wallace '38	Rep. Board of Trustees
Joel Paget '67	Rep. Board of Trustees
V. O. (Bud) McDole '52	President, Falcon Club
George Dailey '43	Member-at-large
Steve Gerhardt '52	Cascade Representative
Norman L. Edwards '55	Executive Director
Douglas Margeson '66	Editor, Alumni Magazine



# College Calendar 1972-73

## AUTUMN QUARTER 1972 (Beginning of Academic Year) (Tentative)

EVENT	TIME	DAYS	DATE
New Student Orientation	-----	Wed.-Sat.	Sept. 20-23
Registration	8:30-5:00	Fri.	Sept. 22
Class Instruction Begins	8:00 a.m.	Mon.	Sept. 25
Last Day to Register or Add Courses	5:00 p.m.	Fri.	Sept. 29
Holiday, Veteran's Day	-----	Mon.	Oct. 23
Last Day to Withdraw from Courses	5:00 p.m.	Wed.	Nov. 22
Thanksgiving Recess Begins (with last class)	-----	Wed.	Nov. 22
Thanksgiving Recess Ends	8:00 a.m.	Mon.	Nov. 27
Evenings Classes End	-----	Wed.	Dec. 6
Last Day for Final Examinations	-----	Wed.	Dec. 6

## WINTER QUARTER 1973

EVENT	TIME	DAYS	DATE
Registration of Students not in Attendance Autumn Quarter	8:00-5:00	-----	Dec. 4-29
Class Instruction Begins	8:00 a.m.	Wed.	Jan. 3
Last Day to Register or Add Courses	5:00 p.m.	Tues.	Jan. 9
Holiday, Presidents' Day	-----	Mon.	Feb. 19
Last Day to Withdraw from Courses	5:00 p.m.	Fri.	Feb. 28
Evening Classes End	-----	Tues.	Mar. 13
Last Day for Final Examinations	-----	Wed.	Mar. 14
Spring Vacation	-----	-----	Mar. 15-20

## SPRING QUARTER 1973

EVENT	TIME	DAYS	DATE
Registration of Students not in Attendance Winter Quarter	8:00-:500	-----	Mar. 5-20
Class Instruction Begins	8:00 a.m.	Wed.	Mar. 21
Last Day to Register or Add Courses	5:00 p.m.	Tues.	Mar. 27
Holiday, Good Friday	-----	Fri.	Apr. 20
Last Day to Withdraw from Courses	-----	Tues.	May 15
Holiday, Memorial Day	-----	Mon.	May 28
Evening Classes End	-----	Thur.	May 31
Last Day for Final Examinations	-----	Fri.	June 1
Alumni Banquet	6:30 p.m.	Sat.	June 2
Baccalaureate Service	-----	Sun.	June 3
Commencement	8:00 p.m.	Sun.	June 3

## SUMMER QUARTER 1973

EVENT	TIME	DAYS	DATE
Class Instruction Begins (A Session)	-----	Mon.	June 11
First Term Ends	-----	Fri.	July 6
Class Instruction Begins (B Session)	-----	Mon.	July 9
Commencement	8:00 p.m.	Thur.	Aug. 2
Second Term Ends	-----	Fri.	Aug. 3

## Statistics

### AUTUMN ENROLLMENT 1971

	Men	Women	Total
Freshman	175	293	468
Sophomore	178	253	431
Junior	194	210	404
Senior	181	208	389
Graduate N.D.	74	171	245
Graduate, Deg.	27	20	47
<b>Total</b>	<b>829</b>	<b>1155</b>	<b>1984</b>

### DEGREES CONFERRED 1970-71

	Men	Women	Total
Bachelor of Arts	129	212	250
Bachelor of Arts in Education	13	64	77
Bachelor of Science	47	20	67
Bachelor of Science in Nursing	0	26	26
Masters Degrees	19	10	29
<b>Total</b>	<b>208</b>	<b>241</b>	<b>449</b>

### SUMMARY 1970-71

	Men	Women	Total
ACADEMIC YEAR (Three Quarters)			
Total (Cumulative).....	1073	1409	2482
SUMMER SESSION 1971			
New Students.....	216	516	732
Returning Students.....	135	159	294
Total Summer Session.....	351	675	1026
CALENDAR YEAR (Four Quarters)			
Grand Total.....	1289	1925	3214
GRADUATE DEGREE (Degree and Non-Degree) (Included in above totals)			
Academic Year (Three Quarters).....	219	349	568
Summer Session (1970).....	209	493	702
Less Duplicates.....	43	54	97
Net Total.....	385	788	1173

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# Campus Map



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