### Calendar for 1961-1963

#### Summer School 1961
- **Registration**: June 12
- **Class Instruction Begins**: June 13
- **Holiday**: July 4
- **Final Examinations**: July 26-27
- **Seminar Session Begins**: July 22
- **Final Examinations**: August 18

#### First Semester 1961-1962
- **Registration**: September 11-15
- **Class Instruction Begins**: August 25
- **Latest date for discontinuing a course without receiving a grade**: October 2
- **Latest date to add a course without reduction of credit**: October 2
- **Mid-Semester Examinations**: November 22
- **Thanksgiving Recess Begins**: November 22
- **Christmas Vacation Begins after evening classes**: December 15
- **Christmas Vacation Ends**: January 2
- **Registration**: January 23-27

#### Second Semester 1961-1962
- **Registration**: January 29-30
- **Class Instruction Begins**: January 31
- **Mid-Semester Examinations**: February 21
- **Spring Vacation Begins after evening classes**: April 20
- **Spring Vacation Ends**: April 30
- **Final Examinations**: May 25-June 1
- **Baccalaureate and Commencement**: June 3

#### Summer School 1962
- **Registration**: June 11
- **Class Instruction Begins**: June 12
- **Fourth of July (holiday)**: July 4
- **Final Examinations**: July 19-20
- **Seminar Session Begins**: July 16
- **Final Examinations**: August 17

#### First Semester 1962-1963
- **Registration**: September 10-14
- **Class Instruction Begins**: September 17
- **Latest date for discontinuing a course without receiving a grade**: September 28
- **Latest date to add a course without reduction of credit**: September 28
- **Mid-Semester Examinations**: November 2-3
- **Thanksgiving Recess Begins**: November 21
- **Christmas Vacation Begins after evening classes**: December 19
- **Christmas Vacation Ends**: January 2
- **Final Examinations**: January 21-25

#### Second Semester 1962-1963
- **Registration**: January 28-29
- **Class Instruction Begins**: January 30
- **Latest date for discontinuing a course without receiving a grade**: February 13
- **Latest date to add a course without reduction of credit**: February 13
- **Mid-Semester Examinations**: March 23-29
- **Spring Vacation Begins after evening classes**: April 22
- **Spring Vacation Ends**: May 24-31
- **Memorial Day (holiday)**: May 30
- **Baccalaureate and Commencement**: June 2

#### Summer School 1963
- **Registration**: June 17
- **Class Instruction Begins**: June 18
- **Holiday**: July 4
- **Final Examinations**: July 26-27
- **Seminar Session Begins**: July 22
- **Final Examinations**: August 23
FOREWORD

This catalogue represents a departure from the usual format of the type of early bulletin published by colleges. It is hoped that this new method of presentation will be more interesting and meaningful to its readers.

The material which is presented attempts to describe the most important aspects of the college program in terms of its appeal to a prospective student, his parents, and educational counselors.

Whitworth is one of the fastest growing liberal arts colleges in America. It is important to be aware of this fact in observing its curriculum, its campus, and its physical resources.

The college is sponsored by the Presbyterian Synod of Washington and cooperates fully with the general board of education of the United Presbyterian Church in the U. S. A. Its program is carefully planned to meet the intellectual, spiritual, and physical needs of the young people who come to its campus. It is hoped that this edition will graphically portray the heart of the institution.

DIRECTORY OF CORRESPONDENCE

Correspondence relating to the following subjects should be addressed to these individuals:

General school policy
General development program, public relations
Educational program of the college
Campus employment, business interests of the college, student accounts
Scholastic requirements, teacher certification
Living accommodations, student welfare
Admission information

Dr. Frank F. Warren, President
Mr. Edward V. Wright, Director of Development
Dr. Alvin B. Quall, Dean
Mr. J. Paul Snyder, Business Manager
Miss Estella E. Baldwin, Registrar
Miss Marion Jenkins, Dean of Women, or Dr. Jasper Johnson, Dean of Men
Mr. Helmuth Bekowies, Director of Admissions
Today, after sixty-nine years of splendid achievement, Whitworth stands as a Christian College dedicated to the great task of Christian education. It continues under the guidance of the Washington Synod of the Presbyterian Church and cooperates fully with the board of education of the denomination.

RESOURCES

The annual report shows that the College has buildings, equipment and grounds valued at $4,270,000. The operating budget for the academic year is more than $1,457,995. Tuition and fees account for approximately 70 per cent of this amount. The rest comes through support of the Presbyterian Church, gifts from friends and alumni, and endowment. The living endowment plan plays an important part in meeting the current expenses of the College. Information regarding this may be obtained from the Business Manager’s office upon request.

LOCATION

Whitworth College is located just north of the city limits of Spokane in the Country Homes area. At an elevation of 2000 feet, the campus of 150 acres occupies a site of natural beauty. Forty acres of the area constitute the central campus on which are located its many buildings and athletic facilities.

TRANSPORTATION

A regular bus schedule is maintained between downtown Spokane and Whitworth College. The bus leaves the Spokane depot (Coeur d’Alene Hotel) on the corner of Trent and Howard. This provides a safe and insured method of transportation for students living either on the campus or in the city. Students who find transportation in private cars are taking avoidable risks, for which the College assumes no responsibility. The College strongly recommends that students living on the campus do not bring automobiles.

PLACEMENT SERVICE

A Placement Bureau is maintained to aid graduates of Whitworth College who seek teaching positions. The only charge made for this service is $5.00 each year the member wishes his credentials brought up-to-date and made available for use. The College also provides placement service for positions other than teaching through the Office of the Dean of Men.
Admission Policy

Whitworth College offers educational opportunity in the rich tradition of the liberal arts college. It seeks students who will be successful and who will derive maximum benefit from such an experience. The selection of students, therefore, is based on full information concerning the interests, aptitudes, scholastic achievement, and personal qualifications of those applying for admission.

Since the most efficient use of College personnel, facilities, and resources requires that enrollment be limited, candidates for admission are urged to give early attention to admission procedures.

FRESHMAN ADMISSION PROCEDURES

Each person seeking admission should see that the following credentials are furnished to the Director of Admissions:

1. Application for Admission. This form may be secured from the Office of Admissions.

2. Official transcript of high school record and statement of graduation. This should be requested at the end of seventh semester of high school work, with supplement to follow after graduation. Note: A specific pattern of subjects is not required, but preference will be given those students who have prepared for the college experience through a wise choice of courses in English, social science, mathematics, laboratory science, and foreign language.

COLLEGE BOARD ENTRANCE EXAMINATION

3. Scores on the Scholastic Aptitude Test (morning test) of the College Entrance Examination Board—This test is required of all applicants for Freshman standing and should be taken as early as possible in the senior year. Arrangements for the examination may be made with the senior counsellor of the high school or by writing directly to the Board for the Bulletin of Information. Candidates applying for examination in the states of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, or Wyoming, the Canadian provinces of Alberta, British Columbia, Manitoba, or Saskatchewan, the Northwest Territory or Yukon Territory, the Republic of Mexico, Australia, or the Pacific Islands, including Japan and Formosa, should write to the CEEB at Box 27096, Los Angeles 27, California. All others should address the Board at P. O. Box 592, Princeton, New Jersey.

Mature students whose educational background has been of an irregular nature, but who nevertheless demonstrate their ability to do successful college work, may be admitted by special action of the Admissions Committee.

ADVANCED UNDERGRADUATE STUDENTS

1. Complete official application form and send to the Director of Admissions.

2. Submit official transcript record of all college and university work completed or begun, together with a statement of honorable dismissal from the school last attended.

Students who have not completed a full year of college studies prior to application must also take the Entrance Examination required of Freshman applicants. (See item 3, Freshman Admission Procedures.)

3. Maintain a cumulative grade point average of 2.0 (A=4.0) in all college work as well as the last semester or quarter of study.

4. Evaluation of transferred credits:
   a. The last year or 28 semester hours of a student's work must be taken in residence at Whitworth College.
   b. Credits transferred from institutions accredited for less than four years will not be accepted in excess of the accreditation of the individual institution concerned. Example: students transferring from a regular junior college may not transfer more than a total of 60 semester hours plus four hours of physical education activity credit.
   c. Students who present credits earned in unaccredited schools may request permission to validate by examination such courses as correspond to those offered at Whitworth College. Requests for such validation must be made within the first semester of residence and must be validated during the student's first year of residence. The fee for such validation by examination is $1.00 per credit hour.

GRADUATE STUDENTS

1. Complete official Graduate Admission Application and send to the Director of the Graduate School.

2. Submit official transcript record to the Director of the Graduate School of all study beyond high school including work started or completed with a statement of honorable dismissal from the last school attended. These records will not be returned to the student. (Read carefully the provisions listed under Master's Degree in the index.)

PHYSICAL EXAMINATION

The college requires each entering undergraduate student to file a physical examination form in the college office prior to registration. This form may be secured from the Director of Admissions and is to be filled out by the student and his physician.
Financial Information

All charges made by Whitworth College are due and payable at the beginning of each semester. A student shall be considered fully registered and be permitted to attend classes only after satisfactory financial arrangements have been made with the Business Office of the College.

The College reserves the right to change its charges at any time without previous notice. However, after the beginning of a semester, no changes will be made to be effective within that semester.

All charges quoted are for one semester.

TUITION

Regular tuition, 12-16 semester hours..........................$345.00
Excess above 16 hours, per hour................................. 17.00
Part-time tuition, 9-11 semester hours, per hour... 27.00
Part-time tuition, under 9 semester hours, per hour........ 28.00
Graduate tuition, for graduate students taking 6 hours or less of regular graduate courses, per hour (Courses over 500).................. 15.00

ROOM AND BOARD

Warren Hall (Women), Arend Hall (Men) ............$325.00
Ballard Hall (Women), McMillan Hall (Women), Westminster Hall (Men), Westminster Wing (Men)........... 300.00
Maranatha Hall (Women), Nason Hall (Men).......... 290.00

Room and Board charges do not cover the regular College vacation periods. The payment of room rent does not entitle students to use of room accommodations during these periods, when the buildings may be closed.

GENERAL FEES

Natsihi Fee .................................................$ 5.00
Student Association Fees .................................. 17.00

The Student Association Fees are charged to all students who register for nine hours or more in any department of the College. The proceeds are used for the support of student publications, student union building, student government, forensics, dramatics, athletics, and A.S.W.C. social functions. The fee also covers free admission to all home athletic contests.

Student Union Building Fee .........................$ 7.50

*Dormitory Breakage Fee .............................. 10.00

*This Fee, or unused portion of it, is refundable at time of student's graduation from the College, or withdrawal, if such withdrawal is made before August 1.

MISCELLANEOUS CHARGES

Application fee (new students only)..................$10.00
Auditor's fee, per hour (except lab courses)........... 3.00
Change of registration (after second week)............ 2.00
Duplicate meal ticket ................................... .50
Graduation fee (Bachelor's Degree) .................... 12.50
Graduation fee (Master's Degree) ...................... 15.00
Guidance Clinic fee for testing......................... 5.00
Late registration (after first week) .................... 2.00
Matriculation fee (included in Application fee)...... 5.00
Textbook fee (where textbook is not specified in class)...... 1.00
Validation fee, per hour ................................ 1.00

APPLIED MUSIC FEES

Private Lessons in Art, Music, Speech
One lesson per week, Organ ($2.95 per lesson).....$53.00
One lesson per week, Voice, Instruments, ($2.78 per lesson)...... 50.00
Two lessons per week ($2.46 per lesson).......... 88.50

Practice Room Rental
(For Students Not Taking Lessons.)
One hour per day (Piano, Voice, Instruments) ......... 5.00
Two hours per day (Piano, Voice, Instruments) .... 8.50
One hour per day (Organ) ................................ 8.00
Instrument Rental ....................................... 7.50

EDUCATION FEES

Professional fee .......................................... 5.00

Charged to all junior and senior students in the teacher-training program, payable the first semester of each year only.

Cadet teaching fee
6 hours .............................................. 13.00
8 hours .............................................. 17.00
12 hours .............................................. 25.00
14 hours .............................................. 30.00

Teacher Placement Bureau fee .................. 5.00

SUMMARY OF COSTS

Following is a summary of costs for a full college year (two semesters):

<table>
<thead>
<tr>
<th>Charge</th>
<th>Dormitory Resident</th>
<th>Off-Campus Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$690.00</td>
<td>$690.00</td>
</tr>
<tr>
<td>Room and Board</td>
<td>$580.00 - 650.00</td>
<td>$580.00 - 650.00</td>
</tr>
<tr>
<td>Student Association Fees</td>
<td>54.00</td>
<td>54.00</td>
</tr>
<tr>
<td>Books &amp; Supplies (estimate)</td>
<td>60.00</td>
<td>60.00</td>
</tr>
<tr>
<td></td>
<td>$1384.00 - 1454.00</td>
<td>$804.00</td>
</tr>
</tbody>
</table>

The above summary does not include personal and incidental expenses, which will vary according to the personal tastes and spending habits of the student.
EXTENSION OF FINANCIAL CREDIT

For the convenience of those students wishing to pay their college costs over a longer period, rather than in full at registration time, the College offers such a service through Tuition Plan, Inc. Tuition, Room and Board, and Fees may be included in the contract plan. A descriptive folder on the Tuition Plan may be had by writing the Admissions Office of the College.

Transcripts of record and diplomas of graduation will not be issued until all accounts are fully paid, nor will grades be made available until financial arrangements have been satisfactorily made with the Business Office.

REFUNDS

TUITION, including private instruction in art, music, and speech.

<table>
<thead>
<tr>
<th>Date of Withdrawal</th>
<th>Percentage of Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before end of second week</td>
<td>85%</td>
</tr>
<tr>
<td>Before end of fourth week</td>
<td>70%</td>
</tr>
<tr>
<td>Before end of Mid-Semester</td>
<td>40%</td>
</tr>
<tr>
<td>After end of Mid-Semester</td>
<td>none</td>
</tr>
</tbody>
</table>

ROOM AND BOARD

No refund of Room rental will be made. In case of withdrawal from campus residence, Board charges will be refunded on a pro-rata basis. (Rebate of board charges during absence from campus will not be made for less than one week.)

FEES

No refund of fees will be made.

ALL REFUNDS MUST BE CLAIMED THROUGH PROPER APPLICATION TO THE BUSINESS OFFICE. THE DATE OF SUCH APPLICATION WILL BE USED TO ESTABLISH THE REFUND PERIOD.

SELF SUPPORT

Whitworth College makes every possible effort to assist young people in obtaining an education. Practically all of the work in caring for the grounds, buildings, and secretarial work is done by the students who must obtain some work in order to help with expenses. Opportunities for work in town occur chiefly in domestic and office assistance, personal service of various kinds, canvassing, manual labor, etc. Students who find it necessary to work during the regular college year will be expected to reduce their academic load.

Laboratory Assistantships are available to students majoring in biology, chemistry and physics. Personality, scholarship, technical skill, and financial need will be considered in awarding these assistantships.

Applications for on-campus work are handled through the Business Office. Applications for off-campus employment are handled through the Dean of Men's office.

VETERANS' EDUCATION

Whitworth College is approved to provide training under Public Law 346, 894, 550 and 634, in cooperation with the Veterans' Administration. Under 550 and 634 the student pays for his own tuition, fees, and other expenses.

SCHOLARSHIPS

Whitworth College awards a limited number of scholarship grants each year to applicants of proven financial need and superior academic performance as evidenced by the student's secondary school record or record in previous college studies. These grants divide into three basic categories:

1. ACADEMIC SCHOLARSHIPS (half-tuition each). To qualify for such a scholarship, high school seniors must rank in the upper 10% of their graduating class. Current students and transfer students must have a grade point average of 3.25 or better in all previous college studies.

2. ACTIVITY AWARDS (varying amounts, $100.00 minimum). Students making application for awards must have cumulative average of 3.0 or better and have record of superior performance and capacity in special activity or study areas. Those special study or activity areas considered are art, music, drama, forensics, science, and journalism.

3. MISCELLANEOUS (varying amounts). These grants are given by individual donors and have a wide range of qualification patterns.

In applying for a scholarship grant, an applicant must submit regular admission credentials (see page 5) and also complete the scholarship application furnished by the College. The applicant should clearly indicate the amount of scholarship aid needed, and the Scholarship Committee will determine the type of scholarship funds for which he is eligible. A scholarship application must be completed by March 1 to be considered for the following school year. Whitworth College is grateful for the following scholarships which have been given to help worthy and needy students:

THE ALUMNI SCHOLARSHIP—full tuition, given annually to an outstanding freshman applicant (renewable at one-half tuition annually).

THE DAVE BARNES MEMORIAL SCHOLARSHIP FUND—grants by appointment of Mrs. Aubrey M. Leavitt.
THE ENGINEERS CLUB is a fellowship among the engineering students. It sponsors field trips, technical motion pictures, professional speakers and discussion programs to encourage their personal and professional growth.

THE STUDENT WASHINGTON EDUCATION ASSOCIATION is an organization which seeks to promote and further interest in the teaching profession, and to develop spirit on the part of college students preparing for this profession.

MUSIC EDUCATORS NATIONAL CONFERENCE (affiliate of the National Education Association). The purpose of the student membership is to afford students the opportunity for cooperative and reciprocal professional musical development while still in school with a view to the benefits to be derived by the students themselves and by the professional organization as a whole.

THE PREP BAND is a group which contributes to the life of the college by providing music for games and for many other functions.

POLITICAL CLUBS: Both Young Republicans and Young Democrats have organizations on the campus. These are part of the national organizations and work closely with the county and state political organizations. The purpose is to train students to take an active part in this vital aspect of citizenship.

THE PRE-MED CLUB gives those interested in the medical professions an opportunity to investigate and answer problems peculiar to their group.

THE "Psych" Club is an organization that sponsors special meetings and activities for all students interested in psychology.

THE SKI CLUB is a group of students organized to promote winter sports on the campus and to provide means during the winter months for trips to the Mt. Spokane skiing area for skiing enthusiasts.

THE TRI-SCHOOL CHAPTER OF STUDENT AFFILIATES OF THE AMERICAN CHEMICAL SOCIETY is a group which promotes professional interest and fellowship among students majoring in chemistry. Interesting meetings, discussions with prominent scientists, and field trips are arranged by the participating groups from the campuses of Whitworth College, Gonzaga University and Eastern Washington College of Education.

THE "W" CLUB is made up of varsity award winners in intercollegiate athletics. Its chief interests concern the promotion of athletics and recreational activities of the college.

THE WHITWORTH BUSINESS CLUB is composed of majors and minors in the Department of Economics, Business Administration and Secretarial Science, under advisement of the head of the Department. The basic purpose is to develop a relationship between business students at Whitworth and the economic world, and to keep informed on current business and economic affairs.

THE WHITWORTH-COLLEGE PHYSICAL EDUCATION CLUB has been organized to advance the standards of its profession. Membership is open to all majors and minors in physical education.

THE WOMEN'S RECREATION ASSOCIATION is an organization of women who are interested in sports and recreational activities. A member of the association may receive a block letter, a sweater, a pin, and a school blanket after earning a determined number of points.

To stimulate further interest in sports activities, W.R.A. sponsors varsity teams in tennis and basketball. In addition this organization promotes an intramural program in basketball, softball, volleyball, archery and other recreational activities.

THE WRITERS CLUB, which meets monthly, is an informal group of those interested in creative writing.

HONORARY STUDENT ORGANIZATIONS

ALPHA DELTA SIGMA is a national professional advertising fraternity for male college students actively interested in advertising. It provides honorary recognition for efforts in this field and works toward increasing the quality and effectiveness of advertising. The Arthur L. Madsen Chapter was organized at Whitworth College in 1937.

ALPHA PSI OMEGA is the first national fraternity on the campus as well as the first cast of Alpha Psi Omega in the State of Washington. Its membership is made up of the students who have the distinction of becoming members of the Theta Rho cast of Alpha Psi Omega, National Dramatic Honorary Fraternity.

INTERCOLLEGIATE KNIGHTS is made up of men on the campus who have been of outstanding service. This is a chapter of the national Intercollegiate Knights organization.

THE PIRATE CLUB is made up of women students of the Sophomore, Junior and Senior classes who have high scholarship and have made outstanding contributions to the extra-curricular program of the college. They are selected for membership by the Student Council.

PHI ALPHAI is the honorary scholastic organization of the college. Seniors who have attended Whitworth College for one year and have maintained a 3.5 G.P.A. may be elected to active membership, while Juniors may be elected to associate membership.

BETA BETA BETA is a national biological honorary organization for biology students, who have maintained in their first four semesters of work, a cumulative grade average of 2.7 in addition to a 3.0 average in the biological sciences. The local chapter is Epsilon Kappa. Its purpose is to stimulate sound scholarship, to promote the dissemination of scientific truth, and to encourage investigation in the life sciences.

PI KAPPA DELTA is a national forensic society for those who participate in intercollegiate forensic activities.

RELIGIOUS LIFE

CHAPEL is held three times a week and is a required meeting. Worship is emphasized as an important part of the service. While the exercises are usually devotional, the chapel hour is also employed to bring before the student body the best speakers that can be procured on missions, sociology, evangelism, and kindred topics. Because of our proximity to the city of Spokane, the students have the privilege of hearing a number of distinguished speakers during the year.

CHURCH SERVICES. Sunday Church School and morning worship services are held each Sunday in the Whitworth Community Presbyterian Church which immediately adjoins the campus. Many students and faculty members join there in worship with people of the surrounding community. Churches of all denominations in the city offer opportunities for worship and service to our students. At 7:00 each Sunday evening there is an all-college vespers service on the campus at which time leaders of churches throughout the entire Northwest are invited as speakers.

MEN'S AND WOMEN'S CONFERENCES. Two outstanding annual events are the men's and women's week-end religious conferences, planned by student committees. These conferences, led by well-known Christian leaders, have become important milestones in the lives of many students.
The social life on the campus is under the general direction of the ASWC Social Committee made up of a representative from each class with the student body vice-president as chairman. A great many social events are held during the year, including Orientation Week activities, Homecoming, Hanging of the Greens, Snow Frolic, Beefsteak Breakfast, and the May Festival. Many other affairs are held by the classes, dormitory groups, and other organizations. Social dancing is not permitted at Whitworth or at any Whitworth sponsored function.

STUDENT CONDUCT

Whitworth College seeks to inspire in its students a high standard of conduct on the basis of Christian ideals. Students are expected to show proper respect for the college, its regulations and properties, and to respect the rights of others, both off and on the campus. Students shall not use intoxicating liquors at any time and the use of tobacco on the campus is prohibited.
Academic Regulations

Each year the College gives careful attention to the selection of incoming students who may best profit from the type of instructional program which is offered. Studying in college is often quite different from that of an earlier learning experience. In view of this, it is also important that each student receive the best possible academic counseling. It is also important that he carefully observe the policies of the school with regard to attendance at class and the appropriate load which he should carry in the light of his extra-class activities. The academic offices have been arranged to provide each student with the information which will be most helpful to him in attaining the educational goals which he has set for himself. If each student gives careful attention to the academic regulations which follow, he will experience little difficulty in understanding the entire integration of the academic program.

ACADEMIC LOAD

Fifteen to sixteen hours, exclusive of physical education, is the normal schedule. An average grade of 3.00 (B) in the preceding semester is required for an eighteen hour schedule. A failure in any one course in any semester will lead to a reduction of a student's schedule in the succeeding semester.

Students wishing to audit certain classes may do so provided they register for the course as an audit, and provided that they take into consideration that one-half the hours audited will count towards the total load being carried. The amount charged for auditing a course will be found under fees.

Students will not be permitted to enroll for courses at another college or take work by correspondence or extension through other institutions while attending Whitworth College except in cases where special permission has been given by the Dean or the Registrar.

In general, students who work from one to two hours per day may take a normal load of from 15-17 semester hours. If students increase the amount of hours which they work per day, it is expected that their study load will be decreased proportionately.

Any student who wishes to enroll for more than seventeen hours must petition the Academic Board for permission.

ATTENDANCE

Regular attendance is required in all classes and at all college chapel and assembly periods. Class attendance is kept by the individual instructors and excessive absences will be reported to the Dean's office.

ABSENCES

Voluntary absence from class or laboratory is a distinct loss to the student and will be considered in the preparing of grades. Students finding it necessary to be absent for a period of two days or for an individual class should, when possible, make arrangements with the instructor before the absence; if not before, then as soon as possible following. Should the absence require more than two days, such permission should be secured from the Academic Board.

If the total number of a student's absences (excused and unexcused) exceeds three times the number of class hours per week, registration in that course may, at the discretion of the instructor and the Academic Board, be cancelled and the student's grade becomes an "F" or the credit hours reduced. Chapel absences are treated in the same manner as class absences and a grade of "S" or "F" recorded at the close of the semester, determined by the number of chapel absences. If a second "F" is received the student will be dropped from college. The Academic Board reserves the right to drop from college any student at any time whose record warrants such action.

Grade cuts for unexcused absences are to be the responsibility and at the discretion of the individual instructor.

Students who have unexcused absences prior to or following a holiday period will receive double zero's for the classes missed.

CLASSIFICATION

A student's classification is determined at the beginning of each semester according to the following plan:

- Soph.—28 semester hours and 56 grade points.
- Junior—60 semester hours and 120 grade points.
- Senior—90 semester hours and 180 grade points.

CHANGE OF CLASS SCHEDULE

A student may not withdraw from any class or change his registration unless such changes are filed in writing with the Registrar and approved as follows: (1) Courses may be dropped during the first three weeks of classes after consultation with the advisor and the approval of the Registrar, (2) after three weeks and before the end of the ninth week with the approval of the Instructor and the Advisor or the approval of the Registrar, at which time a grade of "W" or "WF" will be recorded. (If the student is passing at the time of his withdrawal his grade will be recorded as a "W"). If he is failing it will be recorded as "WF"! (3) After the end of the ninth week, until three weeks prior to the close of the semester, with the approval of the Dean and with proper written notification to the Registrar who in turn will notify the individual faculty member. In this case a "W" or "WF" will be recorded. Students must inform the Registrar upon withdrawal from the college. If this is not done "UW" or "WF" will be placed on the permanent record indicating an Unofficial Withdrawal and will be computed as an "F" in the total grade point average.

ELIGIBILITY REQUIREMENT

No student on disciplinary or academic probation may participate in any organized extra-curricular activity held on or off the campus or represent the college or any organization in a public way.
EXAMINATIONS

New Students. All new students take the University of Washington Pre-College Differential Guidance Battery in the spring of the senior high school year, during the summer prior to entrance, or at the time of entrance to the College. The test results and grade predictions are used for subsequent guidance and for assignment to the proper section of English Composition. The fee for this battery is $5.00.

Final. Final examinations are given in all subjects at the close of each semester. Students who for reasons of illness or necessity find it impossible to report for a final examination may petition the Academic Board for permission to take a make-up examination. In no case will the examination be given in advance of the scheduled time.

Validating. Validating examinations are given at scheduled times for the benefit of students who have had a given course and can show proof of having had the course for which they have no transferable credit, provided that the course corresponds to one offered at Whitworth College. (See validating credits for further information.) Such examinations will cost the student a fee of $1.00 per credit hour received.

Students seeking to validate certain credits must make applications through the Registrar for such validation during the first semester of residence and examinations for such validation must be completed before the end of the first year of residence. If certain courses which are required in given departments are not validated or waived during this time due to neglect on the part of the student, he must register for the course not later than the beginning of his junior year.

FAILURES

Parents or guardians of freshman students under 21 years of age will be notified of unsatisfactory or failing work at the end of each semester unless the student has filed evidence that he is self-supporting or a veteran.

A student will be requested to withdraw from the college whenever his record is considered unsatisfactory by the Academic Board according to the regulations listed above.

GRADES AND GRADE POINTS

Grades are given and recorded as follows: A is 100-96; B, 95-88; C, 87-78; D, 77-70; W, Withdrawal; WF, indicates a failure at time of withdrawal; UW, Unofficial Withdrawal; S, Satisfactory without grade; F, Failure; I, Incomplete. An "I" after a course signifies that the course is hyphenated, and no credit will be given until the second semester's work is completed. A UW will be computed as an F in determining the grade point average.

An Incomplete is given only in cases of excused absences, illness, etc., and must be made up within six weeks after the beginning of the first regular term after the incomplete is given. At this time the final grade is recorded as turned in by the faculty member.

In order for the student to remain in good academic standing he must earn at least twice as many grade points as he has hours. Grades carry the following grade point equivalents for each academic hour pursued: A, counts 4; B, 3; C, 2; D, 1; W, UW, WF, and F, 0.

HONORS

Two classes of honors are recognized at Whitworth.

1. SEMESTER HONORS: Granted to students carrying at least fourteen semester hours of work and making a grade point average of 3.25.

2. GRADUATION HONORS: A student who has been in attendance at Whitworth College for two of his four college years is eligible for the following honors: cum laude if he has earned an average of 3.3; magna cum laude if he has earned an average of 3.7; and summa cum laude if he has earned an average of 3.9. The requirement is based on the total of 124 semester hours required for graduation.

HONORS PROGRAM

Since 1958, an Honors program has been available to gifted junior and senior students, enabling them to do independent work in their major fields and to develop their intellectual potential beyond the point usually achieved in regular courses. Students completing the program will be graduated with an Honors degree.

To enter Honors study a student must have a cumulative grade point average of 3.25 in all his subjects and a cumulative 3.5 grade point average in his major field, junior standing or higher, and approval of his major adviser and of the college Honors Council. The student must prove that he is able to do sustained independent study and creative thinking and organizing of a high order. He must be willing to subject himself to rigorous self-discipline.

An Honors student takes a minimum of nine credit hours in Honors seminars during his junior and senior years, substituting the seminars for the same number of hours of regular course work. Honors courses taken in the Junior Year will be numbered 380, 385 and 386, and in the Senior Year 495 and 496.
He will complete a research project, write Honors papers or a thesis, and at the end of the senior year pass with distinction certain comprehensive examinations required by the Honors Council. Throughout his Honors work the student must sustain at least a 3.25 cumulative grade point average in all subjects and a cumulative 3.5 grade point average in his major.

Additional information about the Honors program may be secured from the Chairman of the Honors Council.

LOWER AND UPPER DIVISION WORK

Courses are divided into lower and upper division work. The lower division subjects, those numbered 100-299, are designed primarily for freshmen and sophomores. Lower division students are not permitted to enroll in upper division courses without permission from the Dean and from the Head of the Department in which the student seeks enrollment.

Upper division courses, those numbered from 300-499, are intended for junior and senior students only. A minimum of forty semester hours in upper division courses taken in the junior and senior year is required for graduation. The graduate courses are numbered 500 and above, or carry the letter G.

Courses numbered 100-199 given on the lower division level cannot under any circumstances be raised to the upper division level by additional work.

PERSONNEL AND GUIDANCE

The college seeks to assist each student by providing guidance in the selection of worthwhile goals and developing a plan of action for accomplishing these goals. To achieve this end, incoming freshmen are assigned to specific members of the faculty who serve as curricular counselors throughout the freshman year and until such time as the student has selected his major, when the head of his major department (or a member appointed by the head) becomes his advisor. At the request of the individual student and in cooperation with the Faculty Advisor, the student Personnel Office provides special counseling on problems of vocational choice, choice of a college major and personality problems. In the course of such counseling the results of aptitude, vocational interest and personality tests may be utilized. Additional counseling is available through the offices of the Deans and through referral to Department Heads and individual faculty members.

PROBATION AND DISMISSAL

A student who is not doing satisfactory work at the close of any semester is placed on probation. Probationary status applies for the one succeeding semester.

Freshman: A student must maintain a 1.75 grade point average or he will be placed on probation.

Freshman students who at the close of their first semester's probation fail to obtain the required average will be dropped.

Sophomores, Juniors, or Seniors, must maintain a 2.0 grade point average. Should they fail to maintain this average at the close of their first semester's probation they will be automatically dropped.

Seniors: Any senior who has completed the required number of credits for graduation but who has been placed on probation for low scholarship at the end of the first or last semester of his senior year shall not be permitted to file application for his degree until his probation has been removed.

The Academic Board may limit probationary students to twelve semester hours. Students on probation or with outstanding conditions on previous work, may not represent the college in any public event or hold any elective or appointive office.

The Academic Board reserves the right to drop any student whose record warrants such action.

Chapel attendance is required and a grade of "S" or "F" is given depending on the attendance record. If a student receives an "F" at the end of any semester, he is placed on disciplinary probation which is recorded on his transcript. If he receives an "F" the following semester, he will not be permitted to reenroll at Whitworth College. Seniors receiving an "F" in chapel will not be allowed to participate in the commencement activities or receive their degrees.

REGISTRATION AND ORIENTATION

The first step in the registration process is to participate in all activities during Orientation Week. Through these activities, students will meet the faculty and students and become familiar with the college program. Attendance at orientation activities is required.

All freshmen take a guidance test battery at the time of entrance as an aid to subsequent guidance and placement in English Composition sections. A late testing fee of $2.00 is charged if this battery is not taken at the regularly scheduled time of administration.

A fee of $2.00 is charged for late registration. Students may not be admitted to the college after the third week of the term except by special arrangements with the Dean of the College. No course can be added to a student's schedule after the fourth week, unless the course is one given on an accelerated basis.
Degrees and Requirements

UNDERGRADUATE DEGREES

Whitworth College offers two degrees which one may receive after successfully completing a four-year program.

To receive a Bachelor of Arts or Bachelor of Science Degree, a student must have satisfactorily passed 120 semester hours of study plus four semester hours of physical education. To qualify for graduation, a student must have accumulated a grade point average of 2.0 or a C and have maintained at least a C average in his major and minor fields.

A graduate of the institution, desiring a second bachelor's degree, is required to follow the curriculum of the second department and to present not less than 154 semester hours of credit. Not more than one four-year bachelor's degree may be granted at any one Commencement.

GENERAL GRADUATION REQUIREMENTS

1. English Composition — 6 hours — to be taken during the freshman year. (English 101 and 102 are generally required in the freshman year, but entering students with a high level of proficiency in writing may substitute other work in language and literature. To be graduated, all students must demonstrate continued competence in the language by maintaining the required standard in written work for all classes and by passing the language proficiency examination that is given in the junior year.)

2. Physical Education and Health — 5 hours (Health to be taken during freshman or sophomore year and two hours of physical education activity classes to be taken throughout freshman and sophomore years.) Only four hours of physical education activity credit can be counted towards the baccalaureate degree except for physical education majors and minors.

3. Science — 8 hours to be selected from two groups: Group A, Biology; Group B, Chemistry, Geology, Physics, Mathematics, except when the student's major specifically requires at least 8 hours in one group. Not more than 2 hours of photography will be accepted.

4. Social Science—9 approved hours which may be taken from the following fields: economics, history, political science, sociology, and up to three hours of psychology.

5. Public Speaking — 2 hours. (Fundamentals of speech must be taken in the freshman or sophomore year unless the student wishes to satisfy the requirement by examination. This must be done during the freshman year, or first year of residence.)

6. Foreign Language (Department Requirement.) Departments requiring foreign language will work under the following plan: The ability to pass a proficiency examination in one foreign language or to meet the following requirements:

1. If a student has had two years of a foreign language in high school and can qualify for intermediate language he is only required to take one year in college, or 6 hours.

2. Students who have had no previous foreign language will be required to complete two years, or 14 hours.

7. Bible — 8 hours. Six hours must be in Bible Literature, two hours may be taken in Christian Education or Religion during the junior or senior year if four hours of Bible have been completed. One course must be taken in each year of residence regardless of graduation plans unless the student has already accumulated sufficient credits.

8. Upper Division courses of at least 40 hours to be completed in the junior and senior years.
Majors and Minors

The student must select a major course not later than the close of the freshman year. A major shall consist of not less than 24 semester hours and not more than 50 semester hours (in the case of music 60 semester hours will be accepted) in any one department. The student must also select at least one minor. A minor shall consist of not less than sixteen semester hours. The requirements for both majors and minors are set forth in the departments where the offerings are listed.

Each of the divisions constitutes a field of concentration. When a divisional major is offered, the number of semester hours required is listed at the beginning of the division.

In the case of transfer students, 6 hours of the major must be taken at Whitworth College, unless the requirement is waived by the Academic Board and has the approval of the major department.

Residence Requirements

The student's last semester's work toward a baccalaureate degree must be taken in residence at Whitworth College except in cases of pre-medical, pre-technological, and pre-law students who may find it possible to use their professional school credits in lieu of their senior year.

Transfer students must have earned at least twenty-eight hours in residence at Whitworth College. Students transferring in their senior year must complete at least twenty-eight hours regardless of the total number already completed. Not more than 60 semester hours plus four hours of physical education will be transferred from a junior college toward a baccalaureate degree.

Extension Credit

Not more than thirty semester hours of extension and/or correspondence credit from a fully accredited college will be accepted towards a degree. This credit is only granted when general requirements have been met after the student has satisfactorily completed one year in residence at Whitworth College. No resident student may take work in or through another institution at the same time he is pursuing a course at Whitworth College unless he has obtained written permission from the Dean or the Registrar.

The college will accept USAFI courses taken through approved institutions, and a maximum of three courses taken independently. Other courses for which credit is desired must be validated by examination.

Attendance at Commencement Activities

A student will not be permitted to appear at graduation or participate in senior events if he has not completed the required work for a degree. No degree will be granted in absentia unless special arrangements are made and permission is granted by the Academic Board.

GRADUATE DEGREES

The College offers three degrees which may be earned by satisfying the requirements listed under each of the degrees named.

Master of Arts Degree in Education

General information regarding admission, residence, and time when degrees are conferred is given below:

1. The filing of an application together with an official transcript of record must be forwarded to the Director of the Graduate School. The work presented for admission toward an advanced degree in education must include a minimum of 16 hours of education.

2. A Bachelor's Degree must be held from an accredited college or university with a grade point average of three or above (B) in his upper division work. A candidate with a lower average who shows promise of success may be admitted, on probation, by action of the Graduate Committee but he will be dropped if his grades in graduate work fall below a three point average.

3. A minimum of 30 semester hours of graduate courses will be required in which the candidate has received a grade of B.

4. The work for the Master's Degree must be done in residence, and if the candidate expects to complete this work in one year, he must be able to give his whole time to it. All work, including the thesis and/or educational study when required, must be completed within a six-year period.

5. Two semesters of residence (24 semester hours) at Whitworth are required. A transfer of not more than six semester hours from other institutions is allowed.

6. The Master's Degree will be conferred only at the end of the regular academic year. Any student finishing his work during the summer must return the following spring for graduation exercises.

7. Each candidate shall elect one of the three programs in education or in religion involving a field of concentration. If a research project is involved, the student will be given an official advisor under whom he will pursue his work.

Degree Requirements for Master of Arts in Education:

The student has a choice of three fields of concentration. Candidates for Washington State Principal's Credentials should select School Administration for their field of concentration.
Field of Concentration: Educational Guidance

General Requirements:
1. 6 to 9 hours of work in Psychology to be chosen from the following courses:
   - Psychology of Adjustment
   - Psychology of Personality
   - Measurement in Psychology
   - Educational Psychology
2. 6 to 9 hours in Education (courses numbering 500 or higher):
   - Advanced Techniques of Counseling and Guidance
   - Balance to be chosen from:
     - Advanced Principles of Education
     - Advanced Educational Psychology
     - Current Educational Thought
     - Trends in Curriculum Building
   (Note: The total of work in Education and Psychology together should be 15 semester hours.)
3. Sociology—Required course: "The Family".
4. Anthropology — Required course: "Cultural Anthropology".
5. 3 semester hours in any upper division or graduate course offered by the college.
6. The equivalent of 6 semester hours of supervised child-guidance experience under the direction of the Spokane Child Guidance Center.
7. Successful completion of a comprehensive examination based on the several courses chosen by the student and the applied child-guidance experience.

Students who already have the equivalent of a required course can substitute another course in the same field with the approval of the advisor.

Field of Concentration: Classroom Teaching

General Requirements:
1. 9 to 12 hours of work in the student's liberal arts teaching field.
2. 6 to 9 hours in professional education courses number 500 or higher.
3. 6 hours in non-professional liberal arts courses.
4. 6 hours applied teaching project. The student develops a classroom teaching program that reflects the graduate learnings. The college cooperates in the development of this program and observes it in operation.
5. Successful completion of a comprehensive examination based on the several courses chosen by the student and on the applied classroom teaching program.

Field of Concentration: School Administration

General Requirements:
1. 16 semester hours of professional study as required for the Provisional Elementary, Provisional Secondary, Provisional General, or Standard General Principal's Credential in Washington.
2. Laboratory and internship experiences as required for one of above credentials.
3. 8 hours of work in liberal arts courses.
4. The equivalent of 6 hours of reading research some topic related to school administration and in which the student will read exhaustively and develop a graduate paper based on the readings.
5. Successful completion of comprehensive examination based on the course work, laboratory and internship experience, and the reading research.

Graduate courses in education are listed under the Division of Education and are numbered 500 and above. The graduate may select, not to exceed 12 semester hours, in the following academic areas: art, biology, business administration, chemistry, Christian education, English, history, modern language, music, philosophy, physical education, psychology, and sociology.

Degree Requirements for Master of Arts in Religion or in Christian Education:

The student has a choice of three fields of concentration. Fourteen hours must be taken in one of the fields. The choices are:
- Religious Counseling
- Philosophy and Christian Faith
- The Background of Early Christianity

Electives may be chosen from a fourth group of courses announced by the Religion Department.

The graduate courses in Religion are given on a special listing provided by the Religion Department.

The Master of Arts degree will be awarded to graduate students in the field of Christian Education who have completed the area of study and research outlined by the Religion Department.

For further information regarding the Graduate Program write to Director of The Graduate School.

Professional and Pre-Professional Studies

Whitworth College provides training for a large number of vocations. However, there are several professional areas which deserve special attention because of the wide interest in them. The following statements contain descriptions of the pre-professional programs which are of major concern.

DENTISTRY

Students who plan to enter the dental profession usually follow the general program outlined for pre-medical students. It is possible to be admitted to some schools of dentistry with only two years of preparation, but it is advisable to take four years. Pre-dental students should follow the curricula of pre-medical studies with the exception of quantitative chemistry and a language.

ENGINEERING

The successful practice of engineering requires adequate training in the humanities and social sciences. More and more individuals with engineering training are filling responsible positions in our
increasingly complex economy. At the present time over fifty percent of top-management positions are filled by such individuals. Furthermore, while 90% of present business executives are college graduates, approximately seventy-five percent of these college graduates have obtained some or all of their college education in a small private liberal-arts college.

The pre-professional basic studies for all first year engineering students are the same regardless of the specialized branch of engineering in which a student expects to major in future years. During the second year specialization in engineering education begins. At the end of two years some engineering students may wish to change to a science major, for example, chemistry, physics, or mathematics. They can do this without lost time. During the third year engineering students will be pursuing the Three-Two Plan.

Whitworth College participates in the Three-Two Engineering Plan approved by the Board of Christian Education of the Presbyterian Church, U.S.A. Following the three years of basic study at Whitworth College, the student transfers to the engineering college of his choice and graduates in two years. At the end of the five-year combined studies he receives a Bachelor of Arts Degree from Whitworth and a Bachelor of Science Degree in his major engineering field from the cooperating college or university.

At the present time, the Three-Two Plan is available in cooperation with Lafayette, and Washington State University although students wishing to transfer to other engineering schools will find that the Whitworth program is designed to coordinate with standard engineering curricula. Additional information regarding requirements, courses, and possibilities of a Three-Two Plan with other colleges or universities may be secured by writing the Engineering Department or Admissions Office.

In the Three-Two plan the following courses are recommended:

<table>
<thead>
<tr>
<th>FIRST YEAR—All Engineering Students</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities and Social Sciences</td>
<td></td>
</tr>
<tr>
<td>Bible</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engineering and Basic Sciences</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering 101, Problems</td>
<td>2</td>
</tr>
<tr>
<td>Engineering 102, Orientation</td>
<td>1</td>
</tr>
<tr>
<td>Engineering 103, Drawing</td>
<td>2</td>
</tr>
<tr>
<td>Engineering 104, Surveying</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 111, 116, Lecture</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry 136, Inorganic Analysis</td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 138, Qualitative Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Physics 111, Lecture</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 113, Plane Trigonometry</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 115, College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>33</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Humansities and Social Sciences</td>
<td>Hours</td>
</tr>
<tr>
<td>English Composition 101</td>
<td>3</td>
</tr>
<tr>
<td>English Composition 102</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Speech 101</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engineering and Basic Sciences</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering 202, Electrical-Magnetic and Electronic Circuits</td>
<td>3</td>
</tr>
<tr>
<td>Engineering 201, Statics</td>
<td>2</td>
</tr>
<tr>
<td>Engineering 204, Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>Eng. 203, Desc. Geom.</td>
<td>2</td>
</tr>
<tr>
<td>Chem. 337, Quant. Anal. Lab.</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 341, 342, Organic</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry 348, Organic Lab.</td>
<td>2</td>
</tr>
<tr>
<td>Physics</td>
<td>8</td>
</tr>
<tr>
<td>Math. 255, Calc. and Anal. Geom.</td>
<td>5</td>
</tr>
<tr>
<td>Math. 262, Diff. Equations</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Humansities and Social Sciences</td>
<td>Hours</td>
</tr>
<tr>
<td>English Composition 102</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 101</td>
<td>3</td>
</tr>
<tr>
<td>Speech 101</td>
<td>2</td>
</tr>
<tr>
<td>Economics</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engineering and Basic Sciences</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering 201, Statics</td>
<td></td>
</tr>
<tr>
<td>Eng. 202, Electric, Mag. &amp; Electronic Circuits</td>
<td>2</td>
</tr>
<tr>
<td>Engineering 301, 302, AC-DC Electronic Equipment and Circuits I and II</td>
<td>6</td>
</tr>
<tr>
<td>Engineering 303, Mechanics of Materials</td>
<td>2</td>
</tr>
<tr>
<td>Eng. 203, Desc. Geom.</td>
<td>2</td>
</tr>
<tr>
<td>Chem. 361, 362, Phy. Chem.</td>
<td>6</td>
</tr>
<tr>
<td>Chem. 367, Phy. Chem. Lab.</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>21</td>
</tr>
</tbody>
</table>

Whitworth College participates in the Three-Two Engineering Plan approved by the Board of Christian Education of the Presbyterian Church, U.S.A. Following the three years of basic study at Whitworth College, the student transfers to the engineering college of his choice and graduates in two years. At the end of the five-year combined studies he receives a Bachelor of Arts Degree from Whitworth and a Bachelor of Science Degree in his major engineering field from the cooperating college or university.

At the present time, the Three-Two Plan is available in cooperation with Lafayette, and Washington State University although students wishing to transfer to other engineering schools will find that the Whitworth program is designed to coordinate with standard engineering curricula. Additional information regarding requirements, courses, and possibilities of a Three-Two Plan with other colleges or universities may be secured by writing the Engineering Department or Admissions Office.

In the Three-Two plan the following courses are recommended:

<table>
<thead>
<tr>
<th>FIRST YEAR—All Engineering Students</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities and Social Sciences</td>
<td></td>
</tr>
<tr>
<td>Bible</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engineering and Basic Sciences</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering 101, Problems</td>
<td>2</td>
</tr>
<tr>
<td>Engineering 102, Orientation</td>
<td>1</td>
</tr>
<tr>
<td>Engineering 103, Drawing</td>
<td>2</td>
</tr>
<tr>
<td>Engineering 104, Surveying</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 111, 116, Lecture</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry 136, Inorganic Analysis</td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 138, Qualitative Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Physics 111, Lecture</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 113, Plane Trigonometry</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 115, College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>33</td>
</tr>
</tbody>
</table>
LAW
In recent years, law schools have been stressing a broad liberal arts background as furnishing the best possible basis on which to build a professional career. In general, neither the American Bar Association nor leading law schools require any particular prelegal curriculum. They do, however, stress the ability to communicate properly through the development of skill in reading, writing, speaking, and logic.

If a student has decided on a particular law school, he may select those courses which will meet a given school's requirements. If this decision has not been made, the college advises him to major in some field, such as history or political science. Attention is also given to the various aspects of business.

A student who, during his three years in the pre-law curriculum, meets all the institutional requirements for graduation except completion of the law degree and the fourth year of residence may meet the requirements for a B.A. in the first year at the law school.

MEDICAL TECHNOLOGY
Students may become qualified in two years to enter a School of Technology (starting Jan. 1, 1962, three years will be required) and after spending one year in a technological school they will be eligible to take examinations for becoming a registered Medical Technologist. Whitworth has affiliation with the Medical Technology schools of the Deaconess, St. Luke's and Sacred Heart Hospitals whereby if a student spends three years at Whitworth before entering the school of technology he may meet the requirements for the certificate issued by the Registry of Medical Technologists and also receive a B.S. degree.

MEDICINE
The curricula offered allow for preparation for medical and dental schools, for schools of osteopathy, for the B.S. in nursing for graduate nurses from an accredited hospital, and a B.S. in connection with training in Technology. The courses recommended will satisfy the requirements of most professional schools.

Schools of medicine and osteopathy require only three years of preparation but a four-year plan is recommended because it allows more freedom in selection of electives of a cultural value as well as the basic science requirements.

The major selected by pre-medical students is optional, depending on the interests of the student. The usual majors chosen are Biology, Chemistry, or Basic Sciences. Since about one-third of the medical college require a reading knowledge of one modern language it is recommended that two years of a modern language be included in the curriculum.

A student who, during his three years in the premedical curriculum, meets all the institutional requirements for graduation except completion of a major and the fourth year of residence may meet the requirements for a B.S. in Pre-medical Studies in the first year at the medical school.

CURRICULA OF PRE-MEDICAL STUDIES
Recommended for the Freshmen Year
Mathematics 113, 115, 116
Biology 104, 105
Chemistry 113, 114, General Chemistry
Speech 110, Fundamentals
Bible
Personal Health
Physical Education
Recommended for the Sophomore Year
Biology 220, 221
Mathematics 113, Trigonometry
Chemistry, 1 year of Inorganic
Bible
History
Psychology 101, General
Physical Education
Sociology 111 or 112
Recommended for the Junior and Senior Years
Biology 350, 352, 361, 363, 400, 401
Chemistry, one year of Organic and one semester of Physical
Physics 211, 212, General
Psychology 210, Developmental Psychology
Foreign Language, 2 years
Bible

MINISTRY
Students coming to Whitworth who are expecting to proceed to seminary after graduation should generally seek to obtain as thorough a liberal arts education as possible. The American Association of Theological Schools recommends that three-fourths of the student's college work be taken in the following areas:

ENGLISH, including literature, speech, and related studies, at least 6 semesters.
HISTORY, at least 3 semesters.
PHILOSOPHY, including history, content, and method of philosophy, at least 3 semesters.
NATURAL SCIENCES, preferably physics, chemistry, or biology, at least 2 semesters.
SOCIAL SCIENCES, including psychology, sociology, economics, political science, and education, at least 6 semesters.
FOREIGN LANGUAGES, one or more of the following: Greek, German, French. Those who anticipate post-seminary studies are urged to undertake these disciplines as early as possible. At least 4 semesters.
RELIGION, as thorough a knowledge of the content of the Bible as possible is recommended together with an introduction to the major religious traditions of man. At least 3 semesters.

At Whitworth each student must choose one area of concentration. This major may be chosen at the end of the Freshman year and will usually be in the areas of English, history, philosophy, or one of the social sciences. He must also select a minor area.
NURSING

The nursing curriculum offers two programs: 1. For those who wish to take a year of college preparatory to entering nursing; 2. For those who wish to work for a degree upon completion of the diploma course. Credits for nursing and related college courses will be evaluated on an individual basis. The allowance for basic nursing subjects, upon State Board of Nurse Examiners registration, is 45 hours of advanced standing, except in the case of affiliated programs where the maximum is 53 hours.

CURRICULUM OF THE PRE-NURSING PROGRAM

First Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 120, Human Anatomy</td>
<td>4 Hrs.</td>
</tr>
<tr>
<td>Psychology 101, General</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 101, 107, General</td>
<td>3</td>
</tr>
<tr>
<td>English 101, English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Speech 110, Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Second Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 121, Human Physiology</td>
<td>4 Hrs.</td>
</tr>
<tr>
<td>English 102, English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 112, Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>Bible</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry 142, 148, Organic</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

SOCIAL WELFARE

The following program has been developed in consultation with a committee of practitioners representing the Inland Empire Chapter of the National Association of Social Workers, and is endorsed by this chapter. It is recommended that students planning to enter the field of social work major in one of the two fields of psychology and sociology, and minor in the other. In every case the student should plan his entire program in such a way as to meet the prerequisites of the graduate school of social work which he plans to enter. The courses listed below will meet the specific entrance requirements of schools of social work.

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sociology 111, Introduction</td>
</tr>
<tr>
<td>Sociology 112, Social Problems</td>
</tr>
<tr>
<td>Sociology 231, Cultural Anthropology</td>
</tr>
<tr>
<td>Sociology 305, Statistics</td>
</tr>
<tr>
<td>Sociology 371, Introduction to Social Welfare</td>
</tr>
<tr>
<td>Sociology 372, Field Observation</td>
</tr>
<tr>
<td>Psychology 101, General</td>
</tr>
<tr>
<td>Psychology 210, Developmental</td>
</tr>
<tr>
<td>Psychology 324, Psychology of Adjustment</td>
</tr>
<tr>
<td>Psychology 359, Abnormal Psychology</td>
</tr>
<tr>
<td>Psychology 468, Theory of Counseling and Guidance</td>
</tr>
</tbody>
</table>

Other courses that will help in providing background for social work are Sociology 241, Social Psychology; Economics 101 and 102, Principles of Economics; Political Science 101 and 102, American Government; and Home Economics 354, Income Management.
TEACHING

The college has a complete program for students interested in teaching in public or private elementary and secondary schools. Credits from Whitworth College are accepted in all fifty states towards teacher certification and by university graduate schools for the preparation of college teachers.

An overall grade point average of 2.25 (C) is necessary for registration in Education 337, 338, and 490, and also at least a 2.00 (C) average in each teaching field. During the junior and senior years the Teacher Certification Candidacy Committee provides a special program of guidance to students desiring certification for public school teaching. Specific Laboratory Experiences are required of all students desiring a teaching certificate.

Certification for Public School Teaching in Washington

Degree: A bachelor's degree from an accredited college or university.
Certificates: 1. Provisional
2. Standard

REQUIREMENTS FOR THE PROVISIONAL CERTIFICATE

1. All Bachelor's degree requirements of the college.
2. Two teaching fields commonly taught in the public schools. A major of not less than 24 hours with an additional 16 hours in related fields and the other of not less than 16 hours.

Teaching Fields:

a. Health Education
b. Physical Education and Recreation
c. English Language Arts
   Speech, Drama, Literature, Library, Journalism
d. Foreign Language Arts
   French, German, Spanish
e. Social Studies
   Geography, Economics, History, Political Science
f. Science
   Biological and Physical Sciences
g. Mathematics
h. Fine and Applied Arts
   Art, Business, Home Economics, Music

3. 26 hours of professional requirements.
   Education 210, Developmental Psychology 3 hours
   Education 337, Curricular Materials & Methods (Elementary) 3 hours
   Education 338, General Principles and Methods of Teaching 3 hours
   Professional Electives:
   411, 412, 413, 420, 421, 422, 423, 424, 425, 426, 431, 432, 434, 441, 442, 452 8 hours
   Some departments offer courses in methods of teaching their subjects. These may be acceptable towards partial fulfilment of professional electives requirements.
   See Catalog section for the department.
   Education 460, Washington State Manual 1 hour
   Education 490 E and S, and Directed Teaching and Observation 8 hours
   Laboratory Experiences, including two weeks of classroom observation No Credit

4. Miscellaneous requirements.
   Music 231, Classroom Music* 3 hours
   Art 353, Elementary Art Teaching Methods* 2 hours
   History 485, Washington State History 2 hours
   It is recommended that students complete the professional and miscellaneous requirements in this sequence:
   Sophomore Year:
   Education 210; Music 106.
   Junior Year:
   Education 337, 338, Art 353; Laboratory Experiences.
   Senior Year:
   Professionalized Minor; Education 460, 480, 490; and History 485.
   *Required for Candidates for Elementary Level Teaching Certificate.
Requirements For The Standard General Certificate

Experience:
The candidate must teach at least one year during the first five years following the issuance of the Provisional General Certificate. The State renews the Provisional General Certificate annually for five years, providing renewal requirements are met.

1. A plan for the completion of the fifth college year must be filed with the County Superintendent.
2. Eight hours of the plan must have been completed before the third year of teaching.

Fifth Year of Teacher Education:
Thirty semester hours according to a plan made in consultation between the candidate for the Certificate, the College, and a supervisor of the local school in which the candidate teaches.

1. One-half of these courses must be of upper division or graduate level.
2. Twenty of the thirty hours may be completed prior to the first year of teaching.
3. A maximum of eight hours of extension or correspondence study is acceptable.
4. Teachers may complete these requirements in summer school and night school.
5. At least one semester must be completed in the recommending institution.

Bachelor of Education Degree
A Bachelor of Education degree may be elected by a student after completion of thirty hours beyond the B.A. degree. The requirements for this degree are as follows:

1. Thirty semester resident hours beyond the B.A. degree.
2. Completion of all requirements established by the State Department of Education.
3. Approval of program by Chairman of the Department of Education.

School of American Studies
This program is designed to present the student an opportunity to make a special study of Americana. This study includes our concepts of democracy, personal liberty, and free enterprise. It is the purpose of this program to present a plan of study that will demonstrate the values of our heritage as a free people in a basically free society.

Four options of study are offered: American History, Political Science, Economics, American Humanities.

Basic majors and minors will be required as well as the general graduation requirements of the college. If desired, the student may meet both major and minor requirements in the School of American Studies.

This program will graduate students who have the traditional majors and minors, yet these will have been taken within the framework of the School of American Studies, and under its direction. This can lead to the profession of teaching, law, business, the ministry, the foreign service, as well as the liberal arts program.

Detailed information may be secured by writing to the Director of American Studies, Whitworth College.
Curricular Plan

The instructional departments of Whitworth College are arranged within six divisions, with each division including a related group of subjects. These divisions are:

DIVISION I. FINE ARTS
Art
Music
Speech and Drama

DIVISION II. HUMANITIES
English
Languages
Library Science
Philosophy
Religion

DIVISION III. NATURAL SCIENCES
Biology
Chemistry
Engineering
Geology
Home Economics
Mathematics
Nursing
Physics

DIVISION IV. SOCIAL SCIENCES
History
Political Science
Psychology
Sociology

DIVISION V. BUSINESS SCIENCES
Advertising
Business Administration
Economics
Journalism
Secretarial Science

DIVISION VI. EDUCATION
Education
Physical Education

In the following pages the courses of instruction are described under the titles of the respective departments in which they are offered within the six divisions of the curriculum. Statement of departmental purposes and major and minor requirements will be found at the beginning of each department. The course offerings of Whitworth College are expanded through a system of alternation. When a course is given in alternate years, a distinction is made at the end of the course description.

Courses numbered from 100 through 299 are for freshmen and sophomores; those numbered from 300 through 499 are for juniors and seniors.
FINE ARTS

- ART
- MUSIC
- SPEECH
- DRAMA
DIVISION I FINE ARTS

The aims of the Division of Fine Arts are to advance the appreciation of art and music; to develop specific talents in this area for those who wish to become teachers or professional artists and musicians; and, to give personal enjoyment to all who desire the enrichment of the aesthetic side of life in a well-balanced liberal arts program.

A wide variety of opportunities make it possible for the student to choose the specific activity that suits his individual needs and abilities. The artist and musician alike must be equipped with sufficient technical proficiency to contribute through his profession in such a manner that the fine arts exist as a constructive force in a modern world.

ART
Mr. Koehler, Mr. Larson

The Art Curriculum is organized to give a basic knowledge of the principles of Art and their practical application to expressions in various art media. Since students can develop their talents best through practice and work under competent guidance, most of the work is done directly in the studio. Art educators of today have an important responsibility. They must prepare and guide students into a place in our highly competitive social and economic system. As in any worthwhile profession, success is in proportion to the investment of time and effort on the part of the student. Graduation from an art course cannot guarantee a job. All any course can do is to point the way and aid and guide the student in choosing the profession into which his particular abilities seem to lead. That many former Whitworth Art students now hold responsible jobs in the art field, is a credit to the patience, diligence and encouragement shown by the art staff, as well as to the students own ability. This we believe to be an honest evaluation of any pre-professional course offered anywhere.

The art faculty is equally interested in developing intelligent Art Consumers. Not all of our students are primarily interested in art as a profession, but rather as an avocation. Many students are using their art training in various youth work programs, in re-habilitation work, in home economics, in teaching, in day camps, church work, physiotherapy, and many other related fields. The art curriculum at Whitworth College is organized to be the greatest help to these people.

MAJOR REQUIREMENTS

The following courses are required for a major in Art: 101, 102, 107, 108, 125, 221, 222, 255, 301, 355, and 440 plus 13 hours of art electives. A major consists of 36 hours in art.

To major in PAINTING: Basic art courses listed above plus 10 of his 15 electives in painting.

To major in APPLIED ARTS AND CRAFTS: Basic courses listed above plus 12 of his 15 electives in Ceramics, Sculpture, or Jewelry.

To major in COMMERCIAL ART: Basic courses listed above plus 10 of his 15 electives in commercial art and graphics.

To major in GENERAL ART: Basic courses above plus 15 electives in as wide a variety of courses as possible. The GENERAL ART major is planned with his art advisor.

Those who plan to teach should major in the GENERAL ART program plus 353 and 4 additional hours of electives.

Those who plan to major in COMMERCIAL ART should have a minor in advertising.

MINOR REQUIREMENTS

The following courses are required for a minor in Art: 101, 107, 255, and 355, plus 8 hours of electives in either Painting, Applied Arts and Crafts, or Commercial Art. Sixteen hours are required for a minor.

ART COURSES

101 DRAWING I 2 hours first semester
A study of basic perspective, function of light in the expression of form, and the development of rendering techniques.

102 DRAWING II 2 hours second semester
A study of the application and use of color in the expression of light and form using various media and watercolor. Prerequisite: 101.

107 COMPOSITION AND VISUAL THEORY I 2 hours first semester
A study of basic principles and theories of spatial organization and the use and function of color in all areas of Art.

108 COMPOSITION AND VISUAL THEORY II 2 hours second semester
A continuing study of basic principles especially in the third dimension.

123 LETTERING I 2 hours each semester
Principles of design applied to good letter form and alphabet types, and the development of various lettering techniques.

126 LETTERING II 2 hours each semester
Application of lettering techniques to poster layout design, and various types of display advertising. Pre-requisite: 125.

211 PAINTING I 2 hours
The development of basic skills and techniques in oil painting and a comprehensive study of color and method in painting.

221 PAINTING II 2 hours first semester
A continuation and enlargement of skills developed in Painting I.

236 CRAFTS I 2 hours
Application of good principles of design to various types of craft projects. This course is open to students outside of the art department, with no prerequisites, to encourage them to develop some type of avocation.

241 COMMERCIAL ART I 2 hours
The application of good principles of design to various types of layouts for advertising in newspapers, magazines, direct mail, etc.

242 COMMERCIAL ART II 2 hours
The use and significance of color in advertising.

255 CONTEMPORARY ART APPRECIATION 3 hours second semester
A study of many phases of modern art and the application of modern theories of design in commercial and industrial art as well as architecture, sculpture and painting. This course is an appreciation course and open to all students. (Offered 1962-63 and alternate years.)

264 JEWELRY I 2 hours
The development of skills in working with metal and stone cutting and setting.

274 CERAMICS I 2 hours
The development of skills in the designing and producing of various types of ceramic art. Open to all students.

284 SCULPTURE I 2 hours
The application of good design principles in several sculptural media like, modeling in clay and plaster and carving in wood and stone. Special emphasis on three dimensional design qualities.
301 FIGURE DRAWING I
Development of skill in rapid drawing of the figure from the model. Prerequisite: 101.

321 PAINTING III
2 hours
A study of the problems of composition and structure with color relationships.

322 PAINTING IV
2 hours
The student is given certain problems of plastic organization color sequences, and spatial relationships involved in picture making.

335 GRAPHICS I
2 hours
The problems of spatial organization and design in the specific field of print making. Involves lithography, block printing, silk screen, etching.

336 CRAFTS II
2 hours
The application of the principles of design to various crafts media. The course is open to non-majors as well as majors. This course is designed to give as broad an experience as possible to the student with purpose to develop good taste in consumer art goods and to understand the values of good sound craftsmanship.

341 COMMERCIAL ART III
2 hours
Techniques in preparing illustrations suitable for commercial reproduction.

342 COMMERCIAL ART IV
2 hours
Technical drawing and illustration applied to specific fields of interest to the student. This may include: production assembly illustration, fashion illustration, air brush technique, or other types of commercial illustration.

353 ELEMENTARY ART TEACHING METHODS
2 hours each semester
This course is designed to show the prospective teacher, methods of organizing materials and effective ways of presenting various types of learning experiences at the elementary school level. This course meets the state requirement for certification, but it is also open to others who may be working with elementary age children in other than school situations.

355 WORLD HISTORY OF ART
3 hours second semester
A survey of the arts from ancient times up to the 20th century, and their influences on modern art expressions. This course is an appreciation course open to all students. (Offered 1961-62 and alternate years.)

364 JEWELRY II
2 hours
Provides further activity and study in this branch of metal arts.

374 CERAMICS II
2 hours
This course designed for a continued study and the development of new skills in more advanced ceramic problems.

384 SCULPTURE II
2 hours
Advanced problems in three dimensional media. Primary emphasis is on building up structures in several different materials.

401 FIGURE DRAWING II
2 hours
A more comprehensive study of the human figure and the relating of more than one figure to various problems in spatial organization.

421 PAINTING V
2 hours
Emphasis on organizational problems involving figures.

422 PAINTING VI
2 hours
Landscape is the content and form source, as well as color notation, in this course.

435 GRAPHICS II
2 hours
Having previously explored several print mediums the student concentrates on some particular medium for which he has a preference.

436 CRAFTS III
2 hours
This is an advanced course in craft techniques. The student should have had a course in design before enrolling in this course. Prerequisite Crafts I and II.

440 SEMINAR
1 hour second semester
The opportunity is provided to do individual research in various fields of art and present them to the group for discussion and evaluation. Required of all majors but open to others.

451, 452 PAINTING VII, VIII
2 hours
The student concentrates on his own particular style and exploration in composition and analysis. Individual and group discussion of his work helps him in developing a sound philosophy of art and in his particular ways of expressing himself. This course is conducted on an individual basis so that the student can work a considerable time on his own.

464 JEWELRY III
2 hours
Designed to allow the maximum creative effort on the part of the student who is particularly interested in this field of art expression.

474 CERAMICS III
2 hours
Advanced problems are assigned in design, glazing, and firing of various ceramic pieces.

484 SCULPTURE III
2 hours
Many sculptural media require considerable time to complete so this course is designed to allow individual work and instruction which will meet the particular interest of the student.

MUSIC

Mr. Johnson, Mrs. Carrel, Mr. Martin,
Miss Heritage*, Mr. Carlsen*, Mr. Davis,
Mr. Tavener, Mrs. Huttenbach, Mrs. Tavener

 Provision is made for the best possible instruction and experience in all phases of music leading to active professional objectives in performance, teaching, and the ministry of church music. Attention is also given to those wishing to enrich and extend their general cultural background and to prepare for avocational contribution to the educational, religious, and cultural life of their community.

MAJOR REQUIREMENTS

Basic Curriculum

<table>
<thead>
<tr>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied music in one performing medium of which 1 must be pursued in private study, and 2 with upper division credit</td>
<td>6</td>
</tr>
<tr>
<td>Ensemble. Majors must be registered for an ensemble during each semester in residence. Majors in instrumental area must elect either band or orchestra; those in choral, either chorus or choir</td>
<td>8</td>
</tr>
<tr>
<td>Theory, including Theory 122, 221, 222, 325, and one of the following: 320, 426, or 428</td>
<td>13</td>
</tr>
<tr>
<td>History and Literature, 361, 362</td>
<td>6</td>
</tr>
<tr>
<td>Conducting, 357</td>
<td>2</td>
</tr>
</tbody>
</table>

| Piano proficiency requirement (equivalent of 2 semesters class piano, 143, 114-A) | 33 |

Musical Acoustics (For description, see Physics Department.) Is recommended as a laboratory science for music majors.

Plus one of the following areas of emphasis: Hours

1. Applied:
   a. An additional 6 hrs. of applied credit.
      A minimum of 8 hrs. of the required 12 must be in private study in the major performing medium, (violin, piano, voice, etc.), 4 of which must be upper division
   b. At least a joint junior recital and a full senior recital
   c. 2 hrs. of music (upper division) electives

2. Music Education (in addition to the basic curriculum):
   a. Professional requirements in education, (see p. 24) of which the “professionalized minor” must include the following:
      2 hrs. of Mus./Ed. 333
      2 hrs. from either Mus./Ed. 340 or Mus./Ed. 346
   b. Miscellaneous certification requirements:
      Art 353 (elementary majors only), Hist. 485
   c. Minimum of joint senior recital
   d. 5 hours of electives:
      3 hours from either Music 335, Music 336, or Music 339
      2 hours from Physics 119 or Art 353

3. Church Music:
   In addition to the basic curriculum, Mus. 340, 377, 472, plus 2 additional hrs. of applied music (other than major performing area—piano, organ, or voice). Minimum of joint senior recital.

MINOR REQUIREMENTS
Applied music in one performing medium, two hours of which may be class applied................. 4
Ensemble........................................... 4
Theory, including 122.................................... 3
Music History and Literature, 361 or 362................................. 3
Electives......................................... 4

MUSIC COURSES
GENERAL
106 MUSIC APPRECIATION 3 hours each semester
An introduction to the literature and aesthetic principles of music. Listening to and studying of works from the various styles and media with the aim of finer appreciation and future development.

151 SONG LEADING 2 hours first semester
A practical course in the fundamentals of leading songs and hymns for formal and informal singing, and the presentation of new songs and hymns. (Offered 1961-62 and alternate years.)

357 CONDUCTING 2 hours first semester
Basic technique, including the use of the baton and the utilization of the left hand for expressive purposes, plus an introduction to score reading. Prerequisite: 122.

361, 362 MUSIC HISTORY AND LITERATURE 3 hours first and second semesters
A survey of the development of music with emphasis on the styles of the historical periods integrated with thorough examination of scores and recordings for the purpose of developing understanding of music as an art. (Offered 1961-62 and alternate years.)

THEORY COURSES
121 FUNDAMENTALS OF MUSIC 2 hours first semester
Notation, scale structure, intervals, simplest harmonic progressions, sight singing, elementary ear training. Open to non-music majors.

122 MUSIC THEORY 3 hours second semester
Development of basic musicianship through ear training, sight singing, harmony, and analysis of four-part writing; triads, harmonic progression, modulations, and inverted chords. Prerequisite: 121, or permission.

221 MUSIC THEORY 3 hours first semester
A continuation of 122. Nonharmonic tones, cadences, dominant seventh chords, and other chords serving dominant function. Prerequisite: 122.

222 MUSIC THEORY 3 hours second semester
A continuation of 221. Study of nondominant harmony and other altered chords. Prerequisite: 221.

325 INSTRUMENTATION AND SCORING 2 hours first semester
Tone quality, range, transposition, and special characteristics of orchestral and band instruments. Basic scoring concepts and actual scoring for small instrumental ensembles. Prerequisite: 122.

320 MUSICAL ANALYSIS 2 hours second semester
Design and harmonic structure in music with reference to music styles, periods, and media. Prerequisite: 222. (Offered 1961-62 and alternate years.)

426 ORCHESTRATION 2 hours second semester
Scoring techniques for the orchestra and other large ensembles. Prerequisite: 222 and 325. (Offered 1962-63 and alternate years.)

428 COMPOSITION 2 hours second semester
Principles of composition including harmonic, melodic, and rhythmic devices as well as contrapuntal techniques through practical application. Prerequisite: 222 and 325. (Offered 1962-63 and alternate years.)
MUSIC EDUCATION COURSES

231 ELEMENTARY CLASSROOM MUSIC  
3 hours second semester  
Classroom procedures and material for music listening, creating, and participation in the elementary classroom. Recommended supporting electives: Music 121, 113A, or 106. For non-music teaching candidates.

333 MUSIC EDUCATION FOR THE ELEMENTARY SCHOOL  
2 hours first semester  
Materials and methods for directing and supervising musical activities and experiences in the first six grades. For the music major and minor.

335 STRING AND PERCUSSION INSTRUMENTS  
Class Instruction and Methods  
2 hours first semester  
Classroom procedures and methods for teaching the pianos; course of study planning; and actual performance on the instruments.

336 WOODWIND INSTRUMENTS  
Class Instruction and Methods  
1 hour second semester  
Elementary instruction and methods of teaching the woodwinds; course of study planning, and actual performance.

339 BRASS INSTRUMENTS  
Class Instruction and Methods  
1 hour second semester  
Elementary instruction and methods of teaching the brass instruments; course of study planning; and actual performance.

340 CHORAL TECHNIQUES, PROBLEMS AND MATERIALS  
2 hours second semester  
A study of the organization and administration of choral groups with special emphasis on the junior and senior high school program; choral problems and techniques; rehearsal procedure; the study of materials. Prerequisite: Music 357.

346 INSTRUMENTAL TECHNIQUES, PROBLEMS AND MATERIALS  
2 hours second semester  
A study of the organization and administration of instrumental music groups with special emphasis on public school programs; problems and techniques of instrumental conducting and rehearsal procedure; and the study of materials. Prerequisite: Music 357.

CHURCH MUSIC COURSES

377 SURVEY OF HYMNOLOGY  
2 hours first semester  
History of the hymn and hymn tune; types of hymns and their uses; analysis and interpretation of hymns; evaluation of standard hymnals.

472 MUSIC AND WORSHIP  
2 hours second semester  
The nature of worship and its significance; music as an aid to worship, order of worship, the role of the director, choir, and organist; evaluating church music.

479 CHURCH MUSIC AND FIELD LABORATORY  
2 hours  
Developing the music program of the church; the multiple choir program; responsibilities of the minister of music; practical experience directing a church choir.

APPLIED COURSES*

Private or class lessons in applied music are available to any student of Whitworth College, major or non-major.**  
(One half-hour lesson per week.)

111, 112—A, B, C, D, E, F, or G—Private Instruction  
211, 212—A, B, C, D, E, F, or G—Private Instruction  
311, 312—A, B, C, D, E, F, or G—Private Instruction  
411, 412—A, B, C, D, E, F, or G—Private Instruction  
113, 114—A, B, or F—Class instruction in piano or voice. Two classes per week. Enrollment limited to eight students per section.  
151, 316—A, B, or F—Repertoire  
Performance, criticism, and discussion of major repertoire for piano, voice or organ. Admission by permission of instructor.  
315, 316—A, B, or F—Repertoire  
Performance, criticism, and discussion of major repertoire for piano, voice or organ. Admission by permission of instructor.  
315, 316—A, B, or F—Repertoire  
Performance, criticism, and discussion of major repertoire for piano, voice or organ. Admission by permission of instructor.  
315, 316—A, B, or F—Repertoire  
Performance, criticism, and discussion of major repertoire for piano, voice or organ. Admission by permission of instructor.  
315, 316—A, B, or F—Repertoire  
Performance, criticism, and discussion of major repertoire for piano, voice or organ. Admission by permission of instructor.  
315, 316—A, B, or F—Repertoire  
Performance, criticism, and discussion of major repertoire for piano, voice or organ. Admission by permission of instructor.  
315, 316—A, B, or F—Repertoire  
Performance, criticism, and discussion of major repertoire for piano, voice or organ. Admission by permission of instructor.

ENSEMBLE MUSIC

A student must have had at least one year of lower division credit in ensemble, choral and instrumental respectively, in order to receive upper division credit.

181, 182, 381, 382 COLLEGE CHORUS  
1 hour  
Open to all students of Whitworth College. Performance of choral works of all styles and periods, including the great choral literature since the 16th century from a cappella to oratorios with full symphonic accompaniment. Prerequisite: permission.

183, 184, 383, 384 COLLEGE CHOIR  
1 hour  
Open to all students by audition. Representative works of the great choral literature since the 16th century from a cappella to oratorios with full symphonic accompaniment prepared for church, school and concert presentations. Prerequisite: permission.

185, 186, 385, 386 VOCAL CHAMBER MUSIC  
1 hour  
Open to all students by permission of instructor. Musical participation and presentation of quartets, trios, madrigals, groups, etc.

191, 192, 391, 392 COLLEGE BAND  
1 hour  
Open to all students of Whitworth College. Literature performed will be predominantly original works for large wind ensembles. Prerequisite: permission.

193, 194, 393, 394 COLLEGE ORCHESTRA  
1 hour  
Open to all students of Whitworth College. Orchestral literature from all periods is studied and performed. The orchestra accompanies the college choral groups in the presentation of oratorios. Prerequisite: permission.

195, 196, 395, 396 INSTRUMENTAL CHAMBER MUSIC  
1 hour  
Open to all students of Whitworth College who are interested in performing in some form of small instrumental ensemble. Prerequisite: permission.

197, 198, 397, 398 STRING SINFONIETTA  
1 hour  
Comprised of the string section of the college orchestra. Representative works of string orchestra literature from all periods will be studied and performed.
SPEECH AND DRAMA

Mr. Waltz, Mr. Lee, Mrs. Erway

The purpose of the Speech and Drama Department is to give the student basic training in organizing and communicating ideas that will make him a more effective individual in social and business situations; to provide cultural training in the appreciation of drama and literature; and to develop the ability to effectively interpret literature and plays.

MAJOR AND MINOR REQUIREMENTS

A major in Speech and Drama consists of at least thirty semester hours and a minor of at least sixteen semester hours. The courses will be selected after consultation with the Speech Department.

Foreign language is strongly recommended for all majors.

SPEECH AND DRAMA COURSES

110 FUNDAMENTALS OF SPEECH

2 hours each semester

A course designed to give the student development in speaking personality and powers of communication, with the aim of making the student a more effective unit in the social order. Required of each student in the freshman or sophomore year unless he has had a speech course and can demonstrate to the satisfaction of the instructor his ability to speak effectively before a group.

120 PUBLIC SPEAKING PRACTICE

2 hours second semester

Advanced practice and theory in fundamentals of public speaking. Special occasion speeches, discussion methods, longer speeches and voice improvement.

121 VOICE AND DICTION

2 hours first semester

A study of the mechanics of good voice and speech production and practical application and training in these techniques. (1962 and alternate years.)

131 LITERARY INTERPRETATION

3 hours first semester

The aims of this course are to aid the students in comprehending the intellectual and emotional meaning of the printed page as intended by the author, and to give instruction and practice in the techniques that will enable the student to convey that meaning to others by the use of vocal and physical expression.

132 LITERARY INTERPRETATION

2 hours second semester

This course gives continuation of the work in Literary Interpretation 131, including the more careful study of dialects and some of the more difficult types of interpretative reading. Prerequisite: 131.

171, 172 STAGECRAFT AND LIGHTING

2 hours first and second semesters

The principles and practice of designing and building scenery and of stage lighting compose the basis of this course. Three or more hours of class and laboratory per week are required.

241 FUNDAMENTALS OF RADIO AND TV

BROADCASTING

2 hours each semester

A survey of radio and television broadcasting. Background material in radio and television transmission, discussion of production procedures, introductory information about various broadcasting systems, the occupational possibilities, ethical and legal problems in the control of broadcasting will be presented. Practice in microphone and camera techniques will be incorporated. The class will meet in the studios of one of the Radio-TV stations in the city of Spokane.

251, 252 SPEECH CORRECTION

2 hours first and second semesters

A survey of the nature, causes and principles of treatment of speech disorders with emphasis upon the educational and clinical aspects of the various problems covered. Recommended for education majors.

261 ARGUMENTATION, PERSUASION, AND DEBATE

3 hours first semester

A course designed to emphasize the theory and practice of persuasion. Practice in finding and evaluating evidence, construction of arguments, rebuttals and delivery in debate is stressed. Special attention is given to the national intercollegiate debate question for analysis. The ethics of persuasion in modern society is included in the work of the course.
271, 272 MAKE-UP AND COSTUME
1-2 hours first and second semesters
A study of the theory and practice of make-up for stage and the design and construction of costumes. Members of the class will assist in all college productions where make-up and costumes are needed. Three or more hours of class and laboratory work per week.

273 INTRODUCTION TO ACTING
3 hours first semester
A study and practice of the principles of acting including vocal and bodily expression and projection, pantomime, character portrayal, stage positions and movement, and the techniques of creating and sustaining a role.

274 PRINCIPLES OF ACTING 3 hours second semester
The work in this class will be concerned with the application of the techniques of course 273 through the actual experience of the preparation of and participation in various plays. Time for rehearsals outside of the regular class periods will be required. Prerequisite: 273.

322 PLATFORM SPEAKING 2 hours second semester
A course in the more advanced forms of speech composition and presentation. Study in the selection, organization, and delivery of speech material will be stressed.

331, 332 ADVANCED LITERARY INTERPRETATION
2 hours first and second semesters
A study of more advanced work in interpretation and the development of repertoire for advanced speech students. Prerequisites: 131, 132.

333 INTRODUCTION TO PHONETICS
2 hours first semester
Study of the International Phonetic Alphabet and the physiology of the sounds of English and some foreign languages. Includes an introduction to phonemics and morphology and the study of dialects and intonation. Offered alternate years 1962-63.

334 PRACTICUM IN SPEECH CORRECTION
2 hours second semester
Laboratory work in speech correction with elementary school children and college students. Study of diagnostic and corrective procedures and methods. Offered alternate years 1962-63. Prerequisite: Speech 251 or 252.

371 INTRODUCTION TO RELIGIOUS DRAMA
2 hours first semester
The intent of this course is to give a careful study of the use of dramatic forms in religious worship and religious education work, including consideration of objectives, sources of material, various dramatic forms, procedures for different situations, and some experimental work.

372 RELIGIOUS DRAMA PRODUCTION
2 hours second semester
Students who have completed 371 may take this course in experimental and production procedures in Religious Drama. The presentation of religious plays and dramatic programs both on and off the campus will be included in this work.

422 PUBLIC SPEECH IN AMERICA
2 hours second semester
A study of modern oratorical criticism and methods practiced in the United States. A semester project in oratory and the preparation of an oration for delivery will be included in the work of the course.

471 PLAY DIRECTION
3 hours first semester
The purpose of this course is to gain a basic knowledge of the best procedures in directing plays through study of authorities and by application of this knowledge in the selection, casting, directing and presenting of workshop plays. It is designed for those who may be called on to take charge of such work in school, church, or community. Prerequisites: 273, 274.

481, 482 PROJECTS IN SPEECH AND DRAMA
1-3 hours first and second semester
For students who are majoring or minoring in speech. Students will be given opportunity to work on individual projects in which they have special interest. Hours and credits are to be arranged with the instructor. Offered on request.

483 SPEECH FOR THE CLASSROOM TEACHER
3 hours each semester
Emphasis is placed on the prospective teacher's own competency as a speaker and the understanding and practice of speech activities useful in teaching. Methods of utilizing public speaking, discussion, story telling, oral reading, dramatics, and speech correction procedures in the teaching situation are presented.

494 SEMINAR IN SPEECH AND SPEECH RESEARCH
2 hours second semester
Review of the field of speech in preparation for the comprehensive examination and integration of work taken in the various fields of speech. Required of all speech majors and minors of junior-senior rank. (Offered 1962-63 and alternate years.)

130, 230, 330, 430 PRIVATE LESSONS 1 hour
Individual instruction in interpretation and speech practice of speech activities useful in teaching. Methods of utilizing public speaking, discussion, story telling, oral reading, dramatics, and speech correction procedures in the teaching situation are presented.

160, 260, 360, 460 FORENSIC DEBATE 1 hour
Intercollegiate debate and forensic speaking including discussion, after-dinner speeches, radio, oral interpretation, extempore, oratory, etc. Prerequisite: Permission of instructor.
DINING HALL

MUSIC BUILDING

McEACHRAN—Administration
DIVISION II. HUMANITIES

The purposes of the Humanities Division are: to acquaint the student with the development of world civilization through the ages and with our philosophical and literary heritage; to challenge the student to creative thought and endeavor in the humanities; and to help the student to formulate an intelligent Christian philosophy of life.

ENGLISH

Dr. Simpson, Miss Whitten, Mr. Wurster, Mrs. Donner, Mr. Richardson, Mrs. Eacker

The program of this department is designed to aid the student as he develops competence in the use of the English language, a general knowledge of the major epochs in our cultural history, a thorough acquaintance with representative masterworks in each era, a discrimination in the choice of reading, and a lasting enjoyment of good literature. Through this study of worthwhile thought artistically expressed, the student should increase his awareness of both personal and social values.

MAJOR REQUIREMENTS

Not later than the beginning of the junior year, the student and his major adviser plan a complete program of course work designed to aid the student in achieving the objectives stated above.

A major in English consists of 28 hours in English and 12 additional hours either in a foreign language or in such closely related fields as drama, journalism, library, and speech. Fifteen of the hours in English must be at the upper-division level. Those who plan to teach English in the public schools must include English 387, 487, 496, Speech 131, and 9 hours in surveys of English and American literature. Those who plan to teach in elementary schools may omit English 487.

MINOR REQUIREMENTS

A minor consists of 16 hours. If the minor is to be used as a teaching field it must include English 387, 487, and 6 hours in survey of English or American literature.

A. ENGLISH FUNDAMENTALS

Each semester no credit

Emphasis upon fundamentals of grammar and spelling for those who need special aid in meeting the language competence requirements.

101, 102 ENGLISH COMPOSITION

3 hours each semester

A review in the mechanics of the English language and more advanced work in reading, written composition, logic in expression, library research, and word study. During the second semester the student will read extensively in various types of literature in order to increase his appreciation of good writing and to improve his own written expression. An accelerated section meeting two days a week is offered for students who have ranked high on the orientation tests.

105, 106 ENGLISH FOR SPECIAL STUDENTS

4 hours each semester

The purpose of this course is to help students who have learned first a language other than English to become better acquainted with the English language, its vocabulary, idioms, and structure. Others may be assigned to this course upon recommendation of the English staff. This course takes the place of English 101 and 102.

202 READING IMPROVEMENT

2 hours each semester

A course for any student who desires to improve his comprehension and increase his speed in reading. Vocabulary and supplementary reading is included. Not counted toward requirements for an English major.

231, 232 SURVEY OF ENGLISH LITERATURE

3 hours each semester

Although it gives the student a comprehensive view of the whole field of English literature and acquaints him with literary types and movements, this course emphasizes the great writers.

233, 234 LITERATURE OF THE WESTERN WORLD

3 hours each semester

Ancient and modern masterpieces of literature and their relationship to our cultural heritage.

236 BUSINESS ENGLISH

2 hours each semester

See Economics 236.

238 APPRECIATION OF POETRY

2 hours first semester

A study of poems and poetic forms with the aim of increasing appreciation of this type of literature. (Offered 1961-62 and alternate years.)

241, 242 SURVEY OF AMERICAN LITERATURE

3 hours each semester

A study of the growth of our literature from colonial origins to the present time.

245 CREATIVE WRITING

3 hours first semester

Study and practice of techniques in writing verse, fiction, essay or drama according to interest and talents of those admitted. Intended for beginners as well as for those who wish to advance toward professional accomplishment in writing. Limited enrollment.

274 CHRISTIAN LITERATURE

2 hours second semester

Selected works from the early Christian era to the present time, not including the Bible. The history of the Christian tradition in literature is studied and certain selections are read.

345 ADVANCED CREATIVE WRITING

3 semester hours

Prerequisite: English 245. For advanced students.

350 CHAUCER AND HIS TIME

2 hours first semester

A study of representative works in medieval literature with special emphasis on the works of Chaucer. (Offered 1962-63 and alternate years.)

352 THE ELIZABETHAN ERA

3 hours second semester

Representative works of the English Renaissance from More to Jonson. (Offered 1962-63 and alternate years.)

354 SHAKESPEARE

3 hours first semester

A study of the life of Shakespeare, his sonnets, and his plays; special emphasis on the great tragedies.
355 MILTON  3 hours second semester
A study of Milton's life and times and important writings to understand his religious and social ideals, as well as to appreciate his major poetical works. (Offered 1962-63 and alternate years.)

356 THE SEVENTEENTH CENTURY  3 hours second semester
Principal English writers from the death of Elizabeth to the Restoration, excluding Milton. (Offered 1961-62 and alternate years.)

357 THE AGE OF REASON  3 hours first semester
Neo-classical English literature from Dryden to Johnson. (Offered 1962-63 and alternate years.)

358 THE ROMANTIC ERA  3 hours second semester
Development of English romanticism in the late eighteenth and early nineteenth centuries. Special emphasis upon Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, and Keats. (Offered 1962-63 and alternate years.)

359 THE VICTORIAN AGE  3 hours first semester
The principal British poetry and non-fiction prose of the period from 1830 to about 1890. The relationship to American and Continental literature of that time is stressed. (Offered 1961-62 and alternate years.)

362 THE BIBLE AS LITERATURE  2 hours second semester
A study of the Bible in English translation with special emphasis upon an appreciation of its literary qualities, and a brief survey of the influence of the King James Version upon subsequent literature in English. Also offered as Religion 362. (Offered 1962-63 and alternate years.)

363 THE BEGINNINGS OF THE NOVEL  3 hours first semester
An historical and critical study of the origins of prose fiction and its development to the time of the Bronte sisters. (Offered 1962-63 and alternate years.)

364 THE RISE OF REALISM IN THE NOVEL  3 hours second semester
The novel from Eliot to Conrad. American and Continental novels also will be included. (Offered 1962-63 and alternate years.)

365 TWENTIETH CENTURY EUROPEAN NOVEL  3 hours first semester
A critical analysis of representative novels in terms of subject matter and technique.

367 TWENTIETH CENTURY DRAMA  3 hours second semester
A study of outstanding plays both American and Continental from 1900 to the present. (Offered 1961-62 and alternate years.)

368 THE AMERICAN RENAISSANCE  3 hours first semester
The American mind from Emerson to Whitman.

369 THE GILDED AGE IN AMERICAN LITERATURE  3 hours second semester
Art and expression in late nineteenth century America.

370 TWENTIETH CENTURY AMERICAN NOVEL  3 hours second semester
A critical analysis of representative novels in terms of subject matter and technique with special emphasis on the novels written in the 1920's.

371 THE RENAISSANCE  3 hours first semester
A study of the expressions of the Renaissance spirit in literature, history, science, philosophy, art and music. Taught by a committee of instructors representing those areas. May be taken for either English or history credit. (Offered 1961-62 and alternate years.)

373 TWENTIETH-CENTURY POETRY  3 hours second semester
Investigation of the ideas and methods of leading British and American poets from 1900 to the present. (Offered 1961-62 and alternate years.)

386 DEVELOPMENT OF THE ENGLISH LANGUAGE  2 hours first semester
The growth of our language and its current form. A study of the changes in the spelling and meaning of words and in grammatical usage, with some insight into the laws governing such changes. Highly recommended for prospective teachers of English.

387 STRUCTURE OF THE ENGLISH LANGUAGE  2 hours second semester
A descriptive analysis of the structure of present-day American English. Required for students who expect to teach but open to all students having completed English 101 and 102 or the equivalent.

487 SPECIAL METHODS OF TEACHING ENGLISH IN SECONDARY SCHOOLS  2 hours first semester
Methods of teaching grammar, rhetoric and literature. Required for prospective teachers of English.

496 LITERARY CRITICISM  2 hours each semester
An appraisal of the materials in the English major in the light of basic critical dicta from Aristotle to the New Criticism.

ANCIENT AND MODERN LANGUAGES

Dr. Wadsworth, Mr. Yates, Mrs. Birnbaums

ANCIENT GREEK

The student is provided with a thorough knowledge of the Grammar and Syntax of New Testament Greek which facilitates the reading of the New Testament in the original.

MINOR REQUIREMENTS

A minor in Greek consists of 16 hours.

201, 202 NEW TESTAMENT GREEK  4 hours each semester
Grammar. Emphasis is on forms.

360 MARK  3 hours first semester
Continuation of grammar.

361 GALATIANS  3 hours second semester
Continuation of grammar.

498, 499 SELECTED READINGS  1 hour each semester
Translation of various books of the New Testament.
MODERN

The general aim of the study of modern foreign languages embraces both practical and cultural considerations. Modern languages are of immediate practical use to students preparing for careers in government service, foreign trade, teaching, missionary service, and for those interested in international relations and travel. Students majoring in other departments will find the ability to read foreign scientific and literary works an essential part of their professional preparation. Knowledge of the language and literature of foreign countries provides a direct approach to an understanding of the cultural values of other nations.

MAJOR AND MINOR REQUIREMENTS

A major or minor is offered in Spanish and in French, a minor in German. A major consists of 26 semester hours in one language, including courses 101-102. A minor consists of 18 hours in one language, including courses 101-102. A student who presents high school units in the same language and is thereby admitted to course 201 will complete a major of 22 hours or a minor of 14 hours. Sixteen hours are required for a teaching minor. Students who do not plan to teach a language may select a major combining two languages. In every case the major must include at least 10 hours in courses numbered above 300 and the minor 4 hours. French 301, 302, 303, 304 or Spanish 301, 302, 303, 304 are required for a major in French or in Spanish. Courses in American, English, and World literatures are recommended for majors.

Prerequisites: Students with one year of high school language or one semester of college language enroll the second semester in course 102; students with two years of high school language or one year of college language enroll in course 201. Other special cases must take a placement test. Courses 101-202 or the equivalent are prerequisite for all upper division courses.

THE LANGUAGE LABORATORY: Provided to supplement classroom drill in pronunciation and conversation. Students work with recordings of class texts made by natives of various countries. The individual may correct his faults and check his progress by means of records and tapes and by taped reproductions of his own voice.

FRENCH COURSES

101, 102 ELEMENTARY FRENCH

4 hours each semester
Fundamentals of pronunciation and grammar, vocabulary building, composition, reading of graded texts, conversation in French from the start.

201, 202 INTERMEDIATE FRENCH

3 hours each semester
Thorough grammar review with more advanced work in conversation and composition, and both intensive and rapid reading of texts. Special attention will be given to those needing foreign language for medicine or science.

301, 302 SURVEY OF FRENCH LITERATURE

2 hours each semester
Historical development of French Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century. Required for major.

303, 304 ADVANCED FRENCH COMPOSITION AND CONVERSATION

2 hours each semester
Based on short texts or vocabularies of the different areas of modern life in order to help the student to more fluent expression in spoken and written French. Required for major.

305, 306 DIRECTED FRENCH READING

2-4 hours
Reading and reports of works selected in one field of special interest: poetry, short story, essay, or prose.

401 MODERN FRENCH NOVEL

2-4 hours
The novel since Romanticism, including the schools of Realism, Naturalism, and the contemporary period.

402 MODERN FRENCH DRAMA

2-4 hours
The drama since Romanticism, including the various schools of the 19th and 20th centuries.

GERMAN COURSES

101, 102 ELEMENTARY GERMAN

4 hours each semester
German phonetics, essentials of grammar, acquisition of vocabulary, elementary composition. Conversation from the very beginning, later on reading of graded texts.

201, 202 INTERMEDIATE GERMAN

3 hours each semester
Thorough grammar review with more advanced work in conversation and composition, and both intensive and rapid reading of texts. Special attention to specialized fields such as science.

301, 302 SURVEY OF GERMAN LITERATURE

2 hours each semester
Historical development of German Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century.

305, 306 DIRECTED GERMAN READING

2-4 hours
Reading and reports of works selected in one field of special interest: novel, short story, poetry, essay, drama.

RUSSIAN COURSES

101, 102 ELEMENTARY RUSSIAN

4 hours each semester
Fundamentals of pronunciation and grammar, reading of graded texts, conversation.

201, 202 INTERMEDIATE RUSSIAN

(First offered in Sept. 1962) 3 hours each semester
Grammar review, conversation, composition, both intensive and rapid reading of periodicals, scientific and technical articles and literary works.

SPANISH COURSES

101, 102 ELEMENTARY SPANISH

4 hours each semester
Fundamentals of pronunciation and grammar, vocabulary building, composition, reading of graded texts, conversation in Spanish from the start.

201, 202 INTERMEDIATE SPANISH

3 hours each semester
Thorough grammar review and more advanced work in conversation and composition, with both intensive and rapid reading of texts.

301, 302 SURVEY OF SPANISH LITERATURE

2 hours each semester
Historical development of Spanish Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century. Required for major.

303, 304 ADVANCED SPANISH COMPOSITION AND CONVERSATION

2 hours each semester
Based on vocabularies and texts dealing with the different areas of modern life to help the student to more fluent expression in spoken and written Spanish. Required for major.

401 MODERN SPANISH NOVEL

2-4 hours
The novel since Romanticism with emphasis upon regionalism.

402 MODERN SPANISH DRAMA

2-4 hours
Spanish stage since Romanticism with emphasis upon social drama.
PHILOSOPHY

Mr. Yates, Dr. Redmond

Philosophy attempts to answer questions pertaining to man's relation to God, the universe and his fellowman. By a critical examination of such efforts through the centuries, the aim of this department is to provide for the student a working philosophy of life.

MAJOR AND MINOR REQUIREMENTS

A major consists of 24 hours, a minor, 15. Required courses for either a major or minor are: 201, 330, 331.

Foreign language is compulsory for all majors. Work in the following departments is recommended: English, History, and Psychology.

PHILOSOPHY COURSES

201 INTRODUCTION TO PHILOSOPHY

3 hours each semester
An introduction to the various systems. This course is a prerequisite to all other courses in philosophy, except 378.

330 HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY

3 hours second semester
From Thales to Ockam.

331 HISTORY OF MODERN PHILOSOPHY

3 hours first semester
From Descartes to Dewey. Philosophy 330 recommended.

350 PHILOSOPHY OF RELIGION

3 hours
A general survey of the field with emphasis on the Christian interpretation of life and the universe. Carries religion credit also.

351 ETHICS

3 hours
A comprehensive study of contemporary ethical problems.

367 AMERICAN PHILOSOPHY

3 hours
A survey of American philosophical thought from colonial times to the present, with special attention to Edwards, Peirce, Royce, James, Santayana and Dewey.

378 LOGIC

3 hours
Formal deductive reasoning.

379 PHILOSOPHY OF HISTORY

3 hours
The relation of man to historical movements.

430 SEMINAR IN THE PHILOSOPHY OF AUGUSTINE

2 hours
An intensive study of the philosophical writings of Augustine, and his influence on the history of thought.

440 SEMINAR IN MODERN BRITISH PHILOSOPHERS OF RELIGION

2 hours
A study of the most significant contributions of modern British thinkers to the philosophy of religion, with special attention to William Temple and F. R. Tennant.

441 PHILOSOPHY OF EDUCATION

2 hours first semester
For course description see Education 441.

498, 499 DIRECTED READINGS AND RESEARCH

1-3 hours each semester
Research by senior students. Credit given depends upon the quantity and quality of work done in the investigation of philosophical problems.
RELIGION

Dr. Dilworth, Dr. Redmond, Miss Jenkins,
Miss Smith, Miss Baldwin

The aim of the Department of Religion is to provide each student with an opportunity to achieve a general understanding of the Bible and of evangelical Protestant doctrine and to equip him for mature Christian living. The Department seeks, also, to provide those preliminary disciplines which will prepare the student for graduate training in the field of Church vocations.

Freshmen are expected to take Religion 102 or 112 during their first year. Religion 475 is recommended for all upper division students.

MAJOR REQUIREMENTS IN BIBLE LITERATURE

A major in Bible Literature consists of 30 semester hours including the 8 required for graduation. The accompanying minor may not be in Christian Education or Greek. Required courses are:

Group I
- Religion 102, 231, 232, 243, 249 or 355 or 356, 475, 489.

Group II
- Religion 245.

Group III
- Religion 354 and 362.

Additional requirements are Foreign Language, a semester of literature, Philosophy 201, and History, either courses 101, 102, and 372, or 333, 354, and 372.

MINOR REQUIREMENTS IN BIBLE LITERATURE

A minor in Bible Literature consists of 10 hours beyond graduation requirements, 5 hours of which may be in Groups II and III. Required courses are Religion 102, 231, 232, 243, and 475.

MAJOR REQUIREMENTS IN CHRISTIAN EDUCATION

A major in Christian Education offers training toward professional or volunteer service in churches, schools, and on the mission field. It or its equivalent is a prerequisite for candidacy for a Master of Arts degree in the field of Christian Education. The major consists of 22 semester hours beyond the 8 required for graduation, 14 of which must be in Group II. Required courses are:

Group I
- Religion 231, 232, 243, and 475.

Group II
- Religion 115, 124, 240 or 244, 371, 480.

Group III
- Religion 359.
- Music 377.

In addition, one of the following options is required:

2. Recreational Leadership: Recreational Leadership 355 and 315 or 356.
3. Arts and Crafts: Art 236, and 101 or 221 or 274.

In addition to the above courses the program for the training of certified church educators (Assistants in Christian Education) under the Board of Christian Education of the United Presbyterian Church in the U. S. A. includes the following requirements:

I. General Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communications</td>
<td></td>
</tr>
<tr>
<td>Freshman English</td>
<td>6</td>
</tr>
<tr>
<td>Speech</td>
<td>2</td>
</tr>
<tr>
<td>B. Literature</td>
<td>6</td>
</tr>
<tr>
<td>C. Laboratory Science</td>
<td>8</td>
</tr>
<tr>
<td>D. Social Science (History, Psychology)</td>
<td>12</td>
</tr>
<tr>
<td>E. Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

II. Additional Minimum Requirements in relation to the major:

A. Developmental Psychology (Psych. 210 and 324 or 327) 4-6
B. Group Dynamics (Psychology 267) 2
C. Theory of Counselling and Guidance (Psych. 468) 3

The following courses are highly recommended:


MINOR REQUIREMENTS IN CHRISTIAN EDUCATION

A minor in Christian Education consists of 14 semester hours beyond the 8 required for graduation, 5 of which may be in groups I and III. Required courses are:

Religion 115, 124, 371, 480.

A related minor is offered in the Journalism Department under the title, "Religious Journalism."

Master of Arts degrees are offered by the department: one in Religion and one in Christian Education.

GROUP I, BIBLE LITERATURE

102 THE GOSPEL ACCORDING TO MARK
- 2 hours each semester

An inductive study of the Gospel of Mark designed to introduce the student to method in Bible study.

112 INTRODUCTION TO THE NEW TESTAMENT
- 2 hours each semester

A survey of the background and contents of the major books of the New Testament.

231 INTRODUCTION TO THE OLD TESTAMENT
- 2 hours each semester

A survey of the historical background and contents of the major books of the Old Testament.

232 LIFE AND TEACHINGS OF JESUS
- 3 hours first semester

A study of the Synoptic Gospels with emphasis on the timeless teachings of Jesus.

242 THE GOSPEL AND EPISTLES OF JOHN
- 2 hours second semester

A study of the Johannine Literature and its relation to the other New Testament writings. (Offered 1962-63.)

243 THE NEW TESTAMENT CHURCH
- 3 hours second semester

A study of the development of the Christian Church based on the Acts and Epistles of Paul.

249 EPISTLE TO THE HEBREWS
- 2 hours first semester

A study of the New Testament book which is a basic bridge between the Old and New Testaments, emphasizing Christ’s complete superiority to the provisions of the Old Testament. Prerequisite: 231. (Offered 1961-62.)

355 THE CORINTHIAN LETTERS
- 2 hours first semester

An expositional study of Paul’s letters to the church at Corinth and their application to issues in the Church today. (Offered 1962-63.)

356 ROMANS
- 2 hours first semester

An analytical study of the Epistle to the Romans and its logical presentation of basic Christian doctrines. (Offered 1961-62.)
366 JEREMIAH 2 hours second semester
A detailed study of the book of Jeremiah, the prophet, his world, and his message for our day. (Offered 1962-63.)

473 APOCALYPTIC LITERATURE OF THE BIBLE 2 hours first semester
A study of the Book of Revelation in its Biblical and historical contexts with emphasis on its message for today. (Offered 1962-1963.)

475 FUNDAMENTALS OF THE CHRISTIAN FAITH 3 hours second semester
A systematic study of the basic doctrines of Protestant Christianity.

489 PROPHETS FOR TODAY 3 hours first semester
A study of the Hebrew prophets with special emphasis on their message for our day.

490 RELIGION SEMINAR Hours to be arranged
A course in individual research with personal conferences with the instructor. Open to seniors and graduates only.

GROUP II, CHRISTIAN EDUCATION

115 INTRODUCTION TO CHRISTIAN EDUCATION 2 hours first semester
A general survey of the field of Christian Education, its historical development, basic principles, aims, and objectives. (Offered 1961-1962.)

124 METHODS OF CHRISTIAN EDUCATION 3 hours second semester
A systematic study of modern educational methods applied to the field of Christian Education, with supervised field work.

240 CHRISTIAN EDUCATION OF CHILDREN 2 hours first semester
A study of the basic needs, interests, capacities, and problems of children, and the development of an adequate program for the local church at each age level. Prerequisite: Psychology 210.

244 YOUTH AND THE CHURCH 2 hours second semester
A study of the church program designed to meet the needs of adolescents. Prerequisite: Psychology 210. (Offered 1961-1962.)

245 USE OF THE BIBLE IN CHRISTIAN EDUCATION 2 hours second semester
A practical course in Bible study methods and teaching procedures applied to each age level, for use in the local Church School. (Offered 1962-1963.)

363 CHRISTIAN EDUCATION OF ADULTS 2 hours second semester
A study of the needs, problems, program and methods of adult education in the local church. (Offered 1961-1962.)

371 ORGANIZATION AND ADMINISTRATION 3 hours second semester
A survey of the current practices in organization and administration of the educational program of the local church. (Offered 1962-1963.)

480 FIELD PROBLEMS IN CHRISTIAN EDUCATION 3 hours first semester
A seminar course dealing with specific problems in Christian Education and supervised work in the student's chosen field. (Seniors only.)

483 WORSHIP IN CHRISTIAN EDUCATION 2 hours first semester
A study of the history, psychology, and meaning of worship with emphasis on aids to guiding worship experiences for all age levels. The course includes field trips to churches representing various religious traditions. (Offered 1961-1962.)

491 CHRISTIAN EDUCATION SEMINAR Hours to be arranged
A course in individual research with personal conferences with the instructor. Open to seniors and graduates.

GROUP III, RELATED COURSES IN RELIGION

350 PHILOSOPHY OF RELIGION 3 hours first semester
See course description, Philosophy 350.

354 HISTORICAL AND GEOGRAPHICAL BACKGROUND OF THE BIBLE 2 hours first semester
A course designed to give an understanding of the physical and historical features of the lands which were the setting for the Bible. (Offered 1962-1963.)

359 HISTORY AND ORGANIZATION OF THE UNITED PRESBYTERIAN CHURCH 2-3 hours second semester
A study of the historical development, policy, and mission of the Presbyterian Churches including comparison with other major denominations and Christian movements. (Offered 1962-1963.)

362 THE BIBLE AS LITERATURE 2 hours second semester
A study of the Bible in English translation with emphasis upon an appreciation of its literary qualities, and a brief survey of the influence of the King James Version upon subsequent literature in English. (Offered 1961-1962.)

372 NON-CHRISTIAN RELIGIONS 2 hours first semester
A study of the major non-Christian faiths of the world and their relationship to Christianity. (Offered 1961-1962.)

373 SURVEY OF CHURCH HISTORY 2 hours first semester
A survey of the historical development of the Christian Church from the time of Christ until the present, related to contemporary church life. (Offered 1962-1963.)

430 SEMINAR IN THE PHILOSOPHY OF AUGUSTINE 2 hours first semester
An intensive study of the philosophical writings of Augustine and his influence in religion and the history of thought.

477 PSYCHOLOGY OF RELIGIOUS EXPERIENCE 2 hours second semester
Systematic study of religious experience from the psychological viewpoint. Experiences such as worship, conversion and prayer, are discussed in the light of psychological concepts and insights.
BASIC SCIENCES

- CHEMISTRY
- PHYSICS
- BIOLOGY
- HOME ECONOMICS
- NURSING
- MATHEMATICS
- ENGINEERING

\[ x = \frac{b \pm \sqrt{4ac + b^2}}{2a} \]
DIVISION III. NATURAL SCIENCES

The Natural Science Division integrates the work of the various science departments. It acquaints the students with the scientific method as a procedure for arriving at truth, with special emphasis upon its application in the various fields of the division. The student receives preparation in science so he may take his place as a member of a cultured society.

BASIC SCIENCE MAJOR

In order to satisfy the requirements of many students who desire a broader education than that allowed by department majors, the major in basic sciences has been planned. This requires ten semester hours in each of the departments of Biology, Chemistry, and Physics, with ten hours of upper division credit in one of those fields. Modern Language and Mathematics are recommended. A minor must be chosen from some field other than Biology, Chemistry, and Physics.

BIOLOGY

Dr. Alder, Mrs. Fick, Mrs. Gray

Biology attempts to make students fully appreciative of the beauty and uniqueness of organization in the plant and animal world. It prepares students to teach the biological sciences in the grades and high school and also prepares them for graduate work in the field of biology. Students receive instruction so they may enter a variety of professional fields including medicine, dentistry, medical technology, nursing, education, osteopathy, optometry, and others.

MAJOR REQUIREMENTS

A major in Biology consists of 28 semester hours selected from Biology 101, 102, 103, 200, 220, 221, 351, 350, 352, 355, 356, 363, 400 and 401. A major also requires 10 semester hours of General Inorganic Chemistry. Courses in organic chemistry, General Physics, and a year of mathematics are desirable. A wide choice in biology courses is permitted to fit the needs in the different fields of interest. For those preparing to teach biology in high schools we recommend Biology 102, 103, 104, 105, 220, 351, 355, 363, 400, and 401.

MINOR REQUIREMENTS

A minor consists of 16 semester hours with a wide range of selection from the courses offered. Majors in Nursing Education will select their minor from Biology 220, 221, 352, 355, 356, 363 or by permission other courses may be substituted.

BIOLOGY COURSES

101 GENERAL BOTANY  4 hours first semester
Structure and functions of roots, stems, leaves, and seeds. The practical aspects of botany are stressed along with fundamental biological processes. Three lectures and one two hour laboratory period.

102 GENERAL BOTANY  4 hours second semester
Structure and relationships of the major plant groups. Three lectures and one two hour laboratory period.

103 FLORA OF THE REGION  4 hours second semester
A study of the native wild flowers around Spokane and collecting, mounting, and classifying methods. Much of the laboratory time will be spent in the field. Three lectures and one two-hour laboratory period.

104, 105 GENERAL BIOLOGY  4 hours each semester
A course designed to integrate life processes in plants and animals. Structure, function, reproduction and the evolution of organisms will be stressed. Four lectures.

107 ANATOMY AND PHYSIOLOGY  4 hours second semester
The study of the general structure and functions of human bodies through mammalian dissection, charts, models, and human skeleton. This course is designed to meet the needs of nursing and home economics students. Four lectures and three hours of laboratory.

108 BACTERIOLOGY  4 hours first semester
An introduction to the biology of micro-organisms. Medical and public health aspects are emphasized. Three lectures and two hours of laboratory.

200 MICROBIOLOGY  4 hours second semester
The classification of micro-organisms and their physiological and pathological reactions. Sterile and pure culture techniques, morphology and physiology of bacteria will be emphasized in the laboratory. Two lectures and two-hour laboratory periods. Prerequisite: One semester of Chemistry.

220 HUMAN ANATOMY  4 hours first semester
A study is made of the structure and general plan of the human body. Demonstrations, charts, models, and the human skeleton are used in the laboratory. An embalmed doubly injected cat is dissected. Three lectures and one two-hour laboratory period.

221 HUMAN PHYSIOLOGY  4 hours second semester
The circulatory, respiratory, digestive, uro-genital, endocrine, and neuro-muscular systems are studied. Three lectures and one three-hour laboratory period.

350 COMPARATIVE VERTEBRATE ANATOMY  4 hours first semester
This is a detailed study of the anatomy of representative chordates, with most of the laboratory time spent on the anatomy of shark, amphibian, and mammal. Prerequisite: Biology 107, 104, 105, or 220. Three lectures and one two-hour laboratory period. (Offered 1961-1962 and alternate years.)

351 INVERTEBRATE ZOOLOGY  4 hours second semester
A study of the biology of the invertebrates. Three lectures and one two-hour lab.

352 VERTEBRATE EMBRYOLOGY  4 hours first semester
The development of certain vertebrates from fertilization of the egg to completion of organogenesis is considered. Most of the laboratory work is devoted to the examination of chick and pig embryos. Prerequisite: Biology 107, 104, 105, or 220. Three lectures and one two-hour laboratory period. (Offered in 1962-63 and alternate years.)

355 EUGENICS  2 hours second semester
A study of the betterment of the "human race." Genetic and sociological aspects will be discussed and integrated. An introductory course in biology is recommended. Two lectures. (Offered in 1962-63 and alternate years.)
361 HISTOLOGY  2 hours first semester
A microscopic study of cells, tissues and systems of vertebrates, especially mammals. Structure, function, and reproduction are coordinated. Prerequisite: Biology 107, or 220. One lecture and three hours of laboratory. Prerequisite: one semester of biology. (Offered 1962-63 and alternate years.)

363 GENETICS  4 hours second semester
A study of the laws and principles governing heredity with application to plants, animals, and man. Three lectures and one two-hour laboratory period. Prerequisites: one semester of biology.

401, 402 SEMINAR  2 hours each semester of the senior year

CHEMISTRY

Dr. Johnston, Dr. Bocksch, Mr. Olson

The objectives of this department are to inculcate a knowledge of the basic laws and theories of chemistry in such a way that the student will be able to use and apply them in his living, to give the student an understanding of the many applications of chemical principles in industry, and to awaken the student to the possibilities of further study in chemistry by giving him a glimpse of its unexplored fields.

The Department of Chemistry offers courses which provide two curricula leading to the degrees of Bachelor of Arts and Bachelor of Science: an elective curriculum provides a basic introduction to chemical science and allows a wide choice of electives in other fields, and a prescribed curriculum which permits an intensive study of chemistry and related sciences in preparation for a professional scientific career or graduate study.

MAJOR REQUIREMENTS FOR BACHELOR OF ARTS

Twenty-four hours of chemistry, including Chemistry 111 or 113, 116, 138, 136, 341, 347, 361 or 362 plus 7 hours of any 300 or 400 series chemistry courses. Also required are: Physics 111, 211; Mathematics 113, 115, 116; 4 hours of biology; Psychology 101; Philosophy 201 or 378; and 3 hours of history.

MAJOR REQUIREMENTS FOR BACHELOR OF SCIENCE

Forty-two hours of Natural Science including Chemistry 111 or 113, 116, 138, 136, 341, 347, 361, 362, 366, 367, 490 and approved elective hours from the following group: Chemistry 401, 407, 432, 438, 452, 464, 480, 490; 300 or 400 series courses in mathematics; Geology 101, 190, and any biology courses. Also required are: Physics 111, 211 and 212; Mathematics 113, 115, 116, 255; Philosophy 201 or 378; Psychology 101; 5 hours of history; and a reading knowledge of scientific German, French or Russian.

MAJOR REQUIREMENTS FOR TEACHERS AND PRE-MEDS

Education students may elect the Bachelor of Arts in chemistry curriculum to satisfy the major requirement for the general teaching certificate. The requirements for a Pre-Med student are the same as for teachers.

MINOR REQUIREMENTS

A minor in chemistry consists of at least 16 hours, including Chemistry 111 (or 113), 116, 136, 138, and 341.

CHEMISTRY COURSES

100 PRINCIPLES OF PHYSICAL SCIENCE  2 hours second semester
An integrated course in the physical sciences, designed to provide a basis of understanding in some of the phases of astronomy, geology, mathematics, physics and chemistry for students not specializing in science and for science majors without the prerequisites for 111. Physics 100 must be taken concurrently. Two lectures a week.

101 INTRODUCTORY CHEMISTRY  2 hours first semester
A survey of the basic principles of chemistry primarily for students of nursing and home economics. Two lectures per week.

103 GENERAL CHEMISTRY LABORATORY  1 hour first semester
Fundamental techniques in the use of chemical equipment, the scientific method, expression of results in the laboratory notebook and in laboratory reports. Individual projects are encouraged. Usually taken concurrently with Chemistry 111 or 113. Students having completed high school chemistry may take a laboratory proficiency examination given during the registration week. Satisfactory performance on this examination will allow the student to be exempt from Chemistry 103 and to enroll in Chemistry 138. One two-hour laboratory period per week.
107 INTRODUCTORY CHEMISTRY LABORATORY 1 hour first semester
An introduction to precise laboratory techniques through an investigation and analysis of unknowns, stressing use of accurate measuring equipment. Primarily for nursing students concurrently enrolled in 101. One two-hour laboratory period per week.

111 CHEMICAL AND PHYSICAL CONCEPTS 3 hours first semester
An integrated course in physics and chemistry, presenting topics according to their place, necessary for any understanding of the physical world and minimizing repetition usually present in separate courses in physics and chemistry. This course provides a study of some of the basic concepts of mathematics, physics, and chemistry in an interesting and enlightening manner. A foundation is provided for all advanced courses in chemistry and physics. This course, together with Physics 111, must be taken concurrently. For transfer purposes it is equivalent to three hours of general chemistry and two hours of general physics. Chemistry 105 or 138 should be taken concurrently. Five lectures per week including Physics 111. Prerequisite: high school physics or chemistry and algebra III, an acceptable score on the college entrance examination, or permission.

113 GENERAL CHEMISTRY 3 hours first semester
The fundamental principles of chemistry, including a brief survey of organic. The atomic structure of matter is emphasized in relation to chemical valence. This course may be taken as a one semester terminal course or as preparation for Chemistry 116. Usually offered as a special or evening course. Three lectures per week.

116 INORGANIC AND ANALYTICAL CHEMISTRY 3 hours second semester
Concepts of inorganic chemistry with emphasis upon the theory of equilibrium reactions and its application to inorganic analysis. Topics such as solubility product constants, ionization, ionization constants, complex ions, oxidation and reduction, and electrical methods of analysis are discussed. Prerequisite: Chemistry 111. Three lectures per week.

136 INORGANIC ANALYSIS LABORATORY 2 hours second semester
Gravimetric, volumetric, and selected instrumental methods of analyses illustrating the principles of chemical equilibrium developed in Chemistry 116. Designed for majors who continue with instrumental analysis and for premedical students or other students who want only one semester of quantitative analytical laboratory experience. Two three-hour laboratory periods per week. Prerequisite: 138 or concurrent enrollment in 138.

138 QUALITATIVE ANALYSIS LABORATORY 1 hour each semester
The detection of selected anions, cations and the analysis of alloys and special substances. The estimation of quantities present as well as the identity of ions is stressed. One three-hour laboratory period per week. Prerequisite: Chemistry 105 or a passing score on the Chemistry 105 proficiency examination.

142 INTRODUCTORY ORGANIC CHEMISTRY 2 hours second semester
An introduction to Organic and Biochemistry for students of nursing, home economics, and others who want only a one-semester course. This course emphasizes the biological organic chemistry, the organic chemistry of synthetic plastics and fibers, and other aspects of modern organic technology. Two lectures per week. Prerequisite: 100, 101, 111, 113, or permission.

148 INTRODUCTORY ORGANIC CHEMISTRY LABORATORY 1 hour second semester
A laboratory course correlated with Chemistry 142. Designed to acquaint the student with a knowledge of modern practices in organic laboratory chemistry. One two-hour laboratory period per week. Prerequisite: 105, 107 or permission.

331 QUANTITATIVE ANALYSIS 2 hours first semester
Theory of gravimetric and volumetric analysis. Designed for majors who will continue with Instrumental Analysis and pre-medical and other students who want only one semester of analysis. Two lectures per week. Prerequisite: 116. (Offered 1961 in the evening school or on demand.)

337 QUANTITATIVE ANALYSIS LABORATORY 2 hours first semester
Gravimetric, volumetric, colorimetric and electrochemical analysis. Two three-hour periods per week. Taken concurrently with Chemistry 331. Prerequisite: 138, or equivalent. (Offered in the evening school or on demand.)

341 ORGANIC CHEMISTRY 3 hours first semester
A study of aliphatic and aromatic compounds. For students who want only one semester of comprehensive study of organic chemistry. Also for those who desire to continue with Chemistry 342. Three lectures per week. Prerequisite: 116.

342 ORGANIC CHEMISTRY 3 hours second semester
A study of aromatic compounds and polyfunctional groups. Three lectures per week. Prerequisite: 341.

347 ORGANIC CHEMISTRY LABORATORY 2 hours first semester
Organic techniques and synthesis. Usually taken concurrently with Chemistry 341. Two three-hour laboratory periods per week. Prerequisite: 138.

348 ORGANIC CHEMISTRY LABORATORY 2 hours second semester
Organic synthesis and qualitative analysis. Two three-hour laboratory periods per week. Prerequisite: 347.

361 PHYSICAL CHEMISTRY-THERMODYNAMICS 3 hours second semester
An introductory study of the first, second, and third laws of thermodynamics, calorimetry, equations of state, Gibbs and Helmholtz functions, kinetic theory of gases, chemical equilibrium, Boltzmann distribution law, equilibrium and the equipartation of energy. Three lectures per week. Prerequisite: general physics and calculus or permission.

362 PHYSICAL CHEMISTRY 3 hours first semester
A study of the theory of chemical equilibrium, electrochemistry, chemical kinetics, atomic and molecular spectra and structure, radioactivity and nuclear energy concepts. May be taken as a one-semester course without having enrolled in Chemistry 361 only with the permission of the instructor. Three lectures per week. Prerequisite: 116, 136; or 331, 337 taken concurrently; Physics 212, Mathematics 255; or permission.

366 PHYSICAL CHEMISTRY LABORATORY 2 hours first semester
A course to familiarize the student with physical-chemical equipment and techniques and to initiate independent thinking as applied to physical chemistry experiments. Two three-hour laboratory periods per week. Prerequisite: 136 or 337, and concurrent enrollment in 362.
367 PHYSICAL CHEMISTRY LABORATORY
2 hours second semester
Development of independent thinking on physical chemical research problems under only general supervision. Six hours of laboratory time per week. Prerequisite: 136 or 337, concurrent enrollment in 381 or permission.

401 ADVANCED INORGANIC CHEMISTRY
2 hours first semester
A study of various topics and problems in modern inorganic chemistry, including chelation, stereochemistry, and catalysis. Prerequisite: 116 or permission. (Offered 1961-62 and alternate years or on demand.)

407 INORGANIC SYNTHESSES LABORATORY
1 hour first semester
Synthesis and purification of inorganic and metalorganic compounds, with emphasis on methods and techniques. Prerequisite: 136, or permission. (Offered 1961-62 and alternate years.)

432 INSTRUMENTAL ANALYSIS
2 hours second semester
Mechanism of some complex analysis and an introduction to instrumental analysis. Electronic circuits of common scientific equipment. Two lectures per week. Prerequisite: 116, 136; or 331, 337; or permission. (Offered 1962-63 and alternate years.)

438 INSTRUMENTAL ANALYSIS LABORATORY
1 hour second semester
Laboratory analysis with electrical and optical instruments. One three-hour laboratory period per week. Usually taken concurrently with Chemistry 432. Prerequisite: 116, 136; or 331, 337; or permission. (Offered 1962-63 and alternate years.)

452 INTRODUCTION TO BIOCHEMISTRY
2 hours first semester
A study of the principles of biochemistry, including the chemistry of metabolism, the theories of modern biochemical analysis, and the use of modern organic mechanisms and structural concepts for the prediction and understanding of the biochemical reactions. Prerequisite: Chemistry 342 or consent of instructor. (Offered 1962-63 or on demand.)

464 RADIOISOTOPE TECHNOLOGY
3 hours second semester
A study of the application of radioisotopes to laboratory techniques in chemistry such as precipitation, solvent extraction, electro-deposition, chromatography, ion exchange, and isotope dilution techniques. Two lectures and one three-hour laboratory period per week. Prerequisite: Physics 463 or permission. (Offered 1962-63 and alternate years or on demand.)

480 SEMINAR
1 hour each semester
Discussion and literature research of current scientific problems; attendance at local scientific meetings. Prerequisite: permission.

490 RESEARCH
1-5 hours each semester
For qualified science students to engage in research problems currently being investigated in the Chemistry Department. Prerequisite: permission.

ENGINEERING

Mr. Carlson

Instruction in engineering, including chemical, civil, electrical, mechanical, etc., is the application to specific problems of the principles and skills of mathematics, physics, chemistry, and other sciences. (See Engineering curriculum on page 20.)

ENGINEERING COURSES

101 ENGINEERING PROBLEMS
2 hours first semester
Training in methods of analyzing and solving simple engineering problems. Practice in clear thinking and arrangement of work using graphical and mathematical methods.

102 ENGINEERING ORIENTATION
1 hour second semester
Activities; professional ideals, responsibilities and ethics; employment in the various types and functions of engineering.

103 ENGINEERING DRAWING
2 hours first semester
Use of instruments, lettering, orthographic and isometric projection, sections, sketching.

104 PLANE SURVEYING
3 hours second semester
Use and care of instruments. Simple surveying problems in field and office. Prerequisite: Engr. 103 or permission.

201 STATICS
2 hours first semester
Fundamental principles of statics. Mathematical and graphical analysis of simple force systems. Prerequisite: Engr. 101, 103, and Math. 113, Calculus.

202 ELECTRIC, MAGNETIC AND ELECTRONIC CIRCUITS
3 hours second semester
The elements of electrical engineering. Prerequisites: Engr. 101, and Physics 212, or may be taken concurrently.

203 APPLIED DESCRIPTIVE GEOMETRY
2 hours first semester
Includes point, line and plane problems, intersections and developments. Prerequisite: Engr. 103.

204 DYNAMICS
3 hours second semester
Equations of motion. The effects of forces acting on rigid bodies in motion. Prerequisite: Engr. 201, and calculus.

301 ALTERNATING AND DIRECT CURRENT— ELECTRONIC CIRCUITS AND EQUIPMENT I
3 hours first semester
Basic concepts of electrical equipment and circuits. Prerequisite: Engr. 202.

302 ALTERNATING AND DIRECT CURRENT— ELECTRONIC CIRCUITS AND EQUIPMENT II
3 hours second semester
Application of the concepts and principles developed in Engr. 301, to analysis of circuits and equipment using alternating, and direct, current sources. Prerequisite: Engr. 301.

303 MECHANICS OF MATERIALS
2 hours first semester
Analysis of the various stresses in machine and structural members. Prerequisite: Engr. 204 or with permission.
GEOLoGY

Mr. Olson

The geology program is aimed at two types of students—those who wish only an introduction to the field and those who will pursue some aspect of earth science in their vocation. For the first group, the goal is to create an observant and appreciative attitude toward the geologic processes and structures which each student observes in his home locality and in travel for business or pleasure. For the second group, the same goal exists but with the additional emphasis on a thorough grounding both in the branches of geology and in the related sciences of chemistry, physics, biology and mathematics.

The major program in geology is not designed as a terminal course to prepare geologists for entry into industry upon graduation. The preparatory nature of the program is indicated by the great emphasis upon the basic sciences; in fact, a minor in one of these fields is required along with the major in geology. Thus, the student should be well equipped to pursue further work toward the masters or doctors degree. Between the junior and senior years, it is advisable for each major student to gain field or laboratory experience either through employment or through registration in a summer field course such as is offered by many of the larger colleges and universities. Credit will be offered in the latter case.

The minor program in geology will interest other types of students—particularly those planning to teach on the secondary and high school level and those who wish to major in a basic science with specific applications in earth science.

MAJOR REQUIREMENTS FOR THE BACHELOR OF SCIENCE

Twenty-four hours of geology including Geology 190, 311, 312, 321, 330, 441, 442; one year of general chemistry (Chemistry 111, 105, 116, 136); one year of general physics (Physics 111, 211, 212); one semester of zoology (Biology 104); mathematics through first semester calculus (Mathematics 113, 115, 116); and demonstrated reading proficiency in German, Russian, or French. In addition, enough additional work in chemistry, physics, or biology to fulfill minor and related requirements; these are listed as follows:

Chemistry Minor: Chemistry 341 or 362 and 6 elective hours in chemistry; Math. 255.

Physics Minor: Physics 326, 327 and 2 elective hours in physics; Math. 255, 262.

Biology Minor: Biology 105, 101 or 102, 351.

MINOR REQUIREMENTS

A minor in geology consists of Geology 101, 190, 311, and enough elective hours in geology to total 16 hours.

101 GENERAL GEOLOGY 4 hours first semester

A survey course designed to introduce the student to both the physical and historical aspects of geology. Attention is first focused on the earth as a planet, next on the earth's surface to view the rock types and the processes in action, and finally on the historical development of rock structures and life. Laboratory work introduces the student to the most common kinds of minerals, rocks, and fossils; map work is also carried out. Several laboratory periods are devoted to short trips to geological sites near the campus. Three lectures and one three-hour laboratory per week.

190 GEOLOGIC PROCESSES AND EARTH HISTORY 5 hours second semester

This course considers in depth much of the material only touched on or omitted in Geology 101. It begins with a brief generalized picture of the major geologic structures comprising the North American continent, then examines in detail the methods of deciphering earth history, and finally considers the geologic history of North American rocks and life forms. Other topics covered are basic evolutionary theory, geosynclinal theory, and origins of coal, petroleum, and the major types of ore deposits. Fossil, rock, and map work in the laboratory supplements firsthand examination of pertinent geologic structures in the Spokane area. Four lectures and one three-hour laboratory per week. Prerequisite: Geology 101 or Chem./Physics 111 or permission.

301, 302 SPECIAL READING IN GEOLOGY 1 hour both semesters

Designed to broaden the student's knowledge in fields not covered by separate courses in the Whitworth Geology curriculum. The reading of a standard text is required in a selected field of geology. Consultation with the department to report on progress and to discuss problems, and passing of a test at the end of the semester. Fields suggested are: petroleum geology, ore deposits, structural geology, glacial and Pleistocene geology, marine geology of the Pacific Northwest or other regions of North America. Prerequisite: Geology 190.

311 MINERALOGY 3 hours first semester

A course including crystallography, theory of X-ray analysis of crystal structure, crystal chemistry, and mineral occurrences. Three lectures per week. Students majoring in geology must simultaneously take Geology 321, a laboratory course in the use of the petrographic microscope. Prerequisite: Chem./Physics 111, Chemistry 116 and 136, Geology 190 or permission. (Offered 1962-63 and alternate years.)

312 PETROLOGY 3 hours second semester

Emphasis is upon igneous and metamorphic rocks although brief study is given to sedimentary rocks. Laboratory work is dominantly examination of thin-sections under the petrographic microscope. Two lectures and one two-hour laboratory per week. Prerequisites: Geology 311 or permission. (Offered 1962-63 and alternate years.)

321 USE OF THE PETROGRAPHIC MICROSCOPE 1 hour first semester

A practical course in how to use the petrographic microscope for identifying and examining fragments and thin-sections of rocks and minerals. One three-hour laboratory per week. Corequisite: Geology 311. (Offered 1962-63 and alternate years.)

350 FIELD MAPPING 1 hour second semester

Five days of field work in a selected area within 200 miles of Spokane. Course held during spring vacation. Also required are ten hours of instruction and campus practice in plane-table techniques. Field work emphasizes (1) observation and reasoning from the visible evidence, (2) the use of topographic maps and/or air photos, and (3) the organized recording of field data. Prerequisites: Math. 113, 115; Geology 190. (Offered 1963-64 and alternate years.)

390 SEMINAR 1 hour second semester

Students majoring in geology participate in a weekly discussion session to consider current problems in
geology. Each student must contribute at least two detailed reports and be able to answer questions concerning his topic. Prerequisite: Geology 190 and permission.

441 CHEMISTRY IN GEOLOGY
3 hours first semester
A comprehensive course surveying the following topics: geochemistry of the hydrosphere, atmosphere, and biosphere; meteorites and cosmochemistry; stable isotope variations and their significance; phase equilibrium in rock and artificial systems; metamorphism and metasomatism; distribution and migration of chemical elements in the earth's crust; radioactive methods of age measurement. Three lectures per week. Prerequisites: Chem./Physics 111, Chem. 116, 136, Geology 190 or permission. (Offered 1963-64 and alternate years.)

442 PHYSICS IN GEOLOGY
3 hours second semester
A comprehensive course surveying the following topics: behavior of rocks under deformation, seismology, geomagnetism, gravity, figure of the earth, isostasy, heat balance of the earth, physics of the atmosphere and oceans. Three lectures per week. Prerequisites: Physics 211-212, Math. 116, Geology 190 or permission. (Offered 1963-64 and alternate years.)

480 RESEARCH
1-2 hours both semesters
Qualified students may engage in research projects being carried out by the department. Prerequisite: permission.

HOME ECONOMICS
Miss Boppell, Mrs. Rhodes
Training in Home Economics prepares students for various professions, including homemaking. The courses offered are planned primarily for those who desire a general knowledge of Home Economics, and for those who plan to teach Home Economics. They may also serve as a preparation for more specialized training in the various related professions.

A student may work toward a Vocational Certificate during her fifth year of training at either the University of Washington or the Washington State University.

MAJOR REQUIREMENTS
A major in Home Economics consists of 32 semester hours. Required courses are: 101, 113, 116, 131, 132, 217, 218, 236, 351, 354, 361, 366, and 490 or 491. Also required are: Art 107, Chemistry 101, 107, Physics 217, Biology 107, Psychology 101, and Sociology 233. Courses in philosophy, foreign language, bacteriology and organic chemistry are strongly advised.

Courses recommended for electives are: Home Economics 208, 280, 371, 467, 471, Biology 108 or 200, French 101, 102, and Philosophy 201 or 378.

Recommended for Freshman Year:
English 101, 102.
Chemistry 101, 107, 142, 148.
Religion 102 or 112.
Psychology 101.
Physical Education Activity.

MINOR REQUIREMENTS
A minor in Home Economics consists of sixteen semester hours. Required courses are: 110, 113, 217, 351, and 490 or 491.

GENERAL COURSES
101 INTRODUCTION TO HOME ECONOMICS
1 hour first semester
Introduces students to opportunities in this field. History of Home Economics. Assists in adjustment to college life.

471 METHODS OF TEACHING HOME ECONOMICS
2 hours first semester
The problems involved in teaching Home Economics; objectives, organization and presentation of subject matter; teaching materials; equipment. (Offered 1961-62 and alternate years.)

475 DIRECTED READING IN HOME ECONOMICS
Credit to be arranged
Intensive reading in some selected field of Home Economics. For upper division majors by permission.

482 WORK EXPERIENCE
2-4 hours
Practical experience for seniors under the direction of a professional home economist. Hours and credit to be arranged in conference with the instructor.

TEXTILES AND CLOTHING
113 CLOTHING SELECTION
2 hours first semester
Selection of clothing, considering design principles as applied to clothing; the effect of figure, personality, personal coloring on clothing choices; the clothing inventory, the clothing budget and wardrobe planning.

116 TEXTILES
2 hours second semester
A study of textile fibers and fabrics; a basis for selection of materials for clothing and home furnishings.

217 CLOTHING CONSTRUCTION
3 hours first semester
Fundamental processes of clothing construction, the using of the commercial pattern, fitting of garments.

218 TAILORING
3 hours second semester
A continuation of Home Economics 115. Construction of garments requiring more advanced methods than in the preceding course; tailoring techniques. Prerequisite: 217.

467 WEAVING
2 hours first semester
Basic techniques used in weaving, and practical experience in weaving on two-harness looms. (Offered 1962-63 and alternate years.)
FOODS AND NUTRITION

108 NUTRITION FOR NURSES 2 hours second semester
Special emphasis is given in this course to the principles of normal nutrition. Planned to aid the student as an individual, as a nurse, and as a teacher of health.

110 MEAL PLANNING AND PREPARATION 2 hours second semester
A survey course for students who are not Home Economics majors; experience will be provided in meal planning and serving as well as in the preparation of many foods. No prerequisite.

131 FOOD PREPARATION 3 hours first semester
A study of the fundamental principles involved in the selection, preparation, and serving of foods. Prerequisite: Chemistry 101.

132 ADVANCED FOOD PREPARATION 3 hours second semester
A continuation of Home Economics 131; includes the planning, preparation, and serving of meals; food costs and marketing. Prerequisite: 131.

361 NUTRITION 3 hours first semester
A study of the components of the normal diet—carbohydrates, fats, proteins, minerals, and vitamins. Emphasis is given to quantitative as well as qualitative aspects; relation of food to health.

HOME ADMINISTRATION

208 HOME NURSING 2 hours second semester
To help homemakers and potential homemakers become more skilled and more resourceful in caring for the sick in their homes; includes the care of mothers and babies and helpless and aged members of the family. (Offered 1961-62 and alternate years.)

236 HOME FURNISHING 3 hours second semester
A study of the principles involved in the decorating and furnishing of the home. (Offered 1962-63 and alternate years.)

280 HOME EQUIPMENT 2 hours second semester
Selection, operation, and care of household equipment. Usually taken concurrently with Physics 217. (Offered 1961-62, and alternate years.)

351 HOME MANAGEMENT 2 hours first semester
The organization and management of time and labor, and the selection of equipment for the home. (Offered 1961-62 and alternate years.)

354 INCOME MANAGEMENT 3 hours second semester
See Economics 354
Planning personal and family spending; guides and standards for dividing the income and planning expenditures; problems of choice-making; consumer economics, including buying habits, consumer prices, cooperatives, government protection of the consumer, Fair Trade laws and other government aids; consideration of the family's long-time savings and investment program. (Offered 1961-62 and alternate years.)

366 CHILD DEVELOPMENT 3 hours second semester
Needs, care and development of the child from infancy through pre-school years; includes a study of nutrition for children. (Offered 1962-63 and alternate years.)

371 FAMILY HOUSING 2 hours first semester
Appraisal of housing in relation to family living needs, lot selection, construction costs and maintenance. (Offered 1962-63 and alternate years.)

490 HOME MANAGEMENT HOUSE
Credit to be arranged
Residence in Home Management House. Experience in managing the house, meal planning and preparation, buying and record-keeping, group relationships. Time and money management emphasized. (Fee for off-campus students.)

491 MANAGEMENT IN THE HOME 2 hours first semester
Supervised experience in the home, related to home management principles and practices. Open to married students only. (Offered 1961-62 and alternate years.)
MATHEMATICS

Mr. Carlson*, Mr. Brooks

The program in the Department of Mathematics is designed to meet the needs of liberal arts students, science students, and those who plan to teach on the elementary or secondary level. Major instruction in mathematics prepares students for graduate work in the field of their choice.

MAJOR REQUIREMENTS FOR BACHELOR OF ARTS

A major in Mathematics who seeks the B.A. degree will be required to complete a minimum of 38 hours including courses 113, 115, 116, 255, 262, 344 or 363, and at least 4 additional hours in courses whose catalog numbers exceed 299. Those who select the field of Mathematics in fulfillment of the requirements for the General Teaching Certificate in the State of Washington are advised to take courses 245, 246, 353, and 360 in addition to the specific courses listed under the requirements of majors.

It is strongly recommended that majors take two years of foreign language, these to be selected from German or French.

MAJOR REQUIREMENTS FOR BACHELOR OF SCIENCE

A major in Mathematics who seeks the B.S. degree will be required to complete a minimum of 36 hours, including courses 113, 115, 116, 255, 262, 344 or 363, and at least 3 additional hours in courses whose catalog numbers exceed 299. The course Mathematics 382 may be used to count as 1 of these 13 hours.

MINOR REQUIREMENTS

A minor in Mathematics consists of a minimum of 20 hours including courses 113, 115, 116, 255, and 262 or 344. Mathematics may be selected to fulfill a part of the Graduation Requirements in Science and Mathematics.

MATHEMATICS COURSES

104 INTERMEDIATE ALGEBRA 3 hours first semester

This course is offered for all students who have had only one year of high school algebra and for those desiring more adequate preparation for College Algebra.

Contents: Study of algebraic multiplication, division, factoring, special products, fractions, exponents, radicals, binomial theorem, linear equations, systems of equations and introduction to determinants.

Credits do not apply toward major or minor in mathematics.

107 ELEMENTARY MATHEMATICS 3 hours first semester

Study of the development of our number system, historical development of arithmetical processes, systematic study of college arithmetic, introductory algebraic methods, slide rule, and other computational aids. Credits will not count toward a major or minor in mathematics.

111, 112 FUNDAMENTALS OF MATHEMATICS 2 hours each semester

This course is designed to meet the elementary needs of students in introductory science courses, business administration, secretarial science, statistics, and other fields in which a thorough knowledge of the fundamentals of the mathematical processes is required or desirable. Arithmetical operations, applications of geometry, ratio and proportion, percentage, linear equations, logarithms, use of the slide rule, and introduction to the trigonometry of the right triangle are included. No credit for one term only.

113 PLANE TRIGONOMETRY 2 hours first semester

This is a systematic study of the trigonometry functions, trigonometric equations and identities and inverse functions. Applications will be made to the fields of plane surveying, navigation, and physics. This course is a prerequisite to Physics 211 and Mathematics 116.

Note: Students should take 113 and 115 simultaneously.

115 COLLEGE ALGEBRA 3 hours first semester

Study of functions, coordinates, quadratic equations, systems of equations, determinants, cubic equations, logarithms, infinite series, mathematics of investment, probability and complex numbers.

Note: Students should take 115 and 113 simultaneously.

116 ANALYTIC GEOMETRY AND CALCULUS 5 hours second semester

A unified approach to the study of analytic geometry and the calculus with emphasis upon concepts of variable, constant, function, limits, coordinate systems. Applications of the calculus to algebraic equations and simple integration. Prerequisites: Mathematics 113 and 115 or special examination.

222 MATHEMATICS OF FINANCE 3 hours second semester

A mathematical study of compound interest, annuities, sinking funds, valuation of bonds, life insurance, and others. Prerequisite: Mathematics 112 or Mathematics 115, or special permission.

245, 246 MODERN CONCEPTS IN MATHEMATICS 3 hours each semester

The contents of this course include the following topics: Introductory logic, "truth tables", applications to switching circuits, study of sets and sub-sets, elementary vectors and matrices, linear programming and applications to the physical and behavioral science problems. This course is of particular value to majors in the behavioral and social science fields as well as to those in the physical and biological sciences.

255 CALCULUS AND ANALYTIC GEOMETRY 5 hours each semester

A continuation of the subject matter of Mathematics 116 with applications to centroids, moment of inertia, and problems of physics. The course includes a study of the conic sections, transcendental functions, maxima, minima, three dimensional analytic geometry, multiple integrals, and elementary differential equations.

Both courses are essential to an adequate preparation in this field of study. Prerequisite: Mathematics 116.

262 DIFFERENTIAL EQUATIONS 3 hours second semester

A course including ordinary and partial differential equations with applications to geometry and physics. Prerequisite: Mathematics 255.

334 ELEMENTARY PROBABILITY AND STATISTICS 3 hours second semester

An introduction to the study of mathematics of probability and the application of probability theory to the Study of Statistics.
344 SELECTIONS FROM MODERN ABSTRACT ALGEBRA 3 hours second semester
A modern approach to modular number systems, integral domains, fields, groups, Boolean algebra, matrices, linear systems, rings, ideals, and elementary set theory. Prerequisites: Mathematics 115 or Mathematics 112.

352 SOLID ANALYTIC GEOMETRY 2 hours first semester
Coordinates of space, planes, lines, determinants, matrices, surfaces, curves and transformations.

353 COLLEGE GEOMETRY 2 hours second semester
An introductory course including a study of the properties of the triangle and the circle. Recommended to those students who are preparing to teach mathematics.

360 THEORY OF EQUATIONS 3 hours second semester
A study of the properties of higher equations, graphs and complex numbers. Solution of equations by Newton's and Horner's methods, determinants, systems of linear equations, symmetric functions and discriminants. Prerequisite: Mathematics 255.

363, 364 INTRODUCTION TO MODERN ALGEBRA 3 hours each semester
A course designed to acquaint the undergraduate student with some of the modern algebraic concepts such as sets, groups, fields, rings, matrices, system of linear equations, linear transformations, quadratic forms, vector spaces, with applications to analytic geometry. Although the calculus is not an absolute prerequisite, it is desirable that the student should have that mathematical maturity which such study should produce.

382 THEORETICAL MECHANICS 3 hours second semester
A mathematical treatment of the mechanics of particles, solids, and introduction to wave mechanics. Prerequisites: Physics 212, and Mathematics 262 or 405 or 416. Credit may apply toward either mathematics or physics. Given on demand.

405, 406 REAL VARIABLES 4 hours each semester
An introduction to the Theory of Functions. The course includes the following: The real number system, functions, sequences, limits, continuity, point set theory, theory of differentiation, law of the mean, theory of integration, infinite series, uniform convergence, functions of several variables, metric spaces, topological spaces, partial differentiation, multiple integrals, improper integrals, Fourier series and orthogonal functions.

409 VECTOR ANALYSIS Three hours second semester

415, 416 ADVANCED CALCULUS 3 hours each semester
A year course embracing an introductory study of explicit and implicit functions, Betas, Gamma and Bessel functions, vectors, line, surface and space integrals, elliptic integrals, ordinary and partial differential equations, functions of a complex variable. Prerequisite: Mathematics 255 and 262.

NURSING
Mrs. Robertson, Mrs. Corona, Mrs. Swepe; Dr. Trayner, Medical Lecturer

PHILOSOPHY OF THE NURSING PROGRAM

Professional nursing is based upon study and experience leading to proficiency in comprehensive nursing care. Abilities in providing such care are developed through understanding of basic social and physical sciences, attainment of communication skills, and through mastery of nursing skills and techniques.

OBJECTIVES OF THE DEPARTMENT

The Nursing Education Department aims to promote in its students:

1. Understanding of the biological sciences as they apply to bodily functions and to disease conditions.
2. Knowledge and ability to apply principles of the physical sciences and nutrition to care of the patient.
3. Knowledge and ability to integrate the basic concepts of the social sciences to their application in understanding the patient and his family and their needs.
4. Understanding and application of communicative skills as they relate to patients, their families and to professional co-workers.
5. Completion, by graduate registered nurses who wish to work for a degree, of a program of advanced nursing courses, including public health nursing, to supplement their basic training and to enable them to practice ably in any first level professional nursing position.
6. Acquaintance with liberal arts courses to give the students breadth of interests and understanding.
7. Development of the student as a well-adjusted person able to direct her own life and to accept responsibility as a contributing member of society.
8. Spiritual development of the student with emphasis on special opportunities and responsibilities of Christian nurses.

REQUIREMENTS FOR A MAJOR IN NURSING

The following courses are required for majors in Nursing: Nursing 460, 494, 497, 498; Biology 200, 220, 221; Chemistry 101, 105 or 107; Psychology 101, 210 or 240, 468; Sociology 111 or 112, 241; Speech 110; Physical Education 114; Electives in Liberal Arts 7 hours.
MINOR REQUIREMENTS

Sixteen hours are required for a minor. Choices may be made from one of three fields: Biology, Psychology or Sociology.

BASIC THREE-YEAR CURRICULUM

See Deaconess Hospital School of Nursing Catalogue.

GRADUATE NURSE PROGRAM

All graduate nurses, except those who have completed their basic nursing at an affiliated school within the preceding year, shall take the National League for Nursing Graduate Nurse Examination to determine their professional nurse level. Any deficiencies in that examination must be made up as part of the requirements for graduation.

Graduate nurses wishing to work for the B.S. degree with a major in Nursing must meet regular graduation requirements relating to subjects and hours of credit.

Advanced standing to be granted for study in a school of nursing meeting League requirements will be determined on an individual basis. Pre-professional courses and any general college requirements will be evaluated as for other transfer students. For those nurses meeting minimum requirements, the usual Whitworth program would be composed of the following:

MAJOR SUBJECTS:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.460</td>
<td>Organization and Administration of Public Health Services</td>
<td>2</td>
</tr>
<tr>
<td>N.494</td>
<td>Methods of Teaching Nursing and Health</td>
<td>3</td>
</tr>
<tr>
<td>N.497</td>
<td>Introduction to Public Health Nursing</td>
<td>3</td>
</tr>
<tr>
<td>N.498</td>
<td>Practice in Public Health Nursing</td>
<td>3</td>
</tr>
<tr>
<td>Psy.468</td>
<td>Theory of Counseling and Guidance</td>
<td>2</td>
</tr>
</tbody>
</table>

MINOR SUBJECTS

Courses approved by minor advisor ................................16

General requirements

Bible .................................................................. 2
Art or Music elective ........................................... 2
History elective .................................................. 3

NURSING COURSES

400 NURSING OF MOTHERS AND CHILDREN

2 hours second semester, Evening

Current trends and practices in maternal and child health services, and the role and function of the professional nurse in providing these services.

460 ORGANIZATION AND ADMINISTRATION OF PUBLIC HEALTH SERVICES

2 hours first semester, Evening

The philosophy and aims of health programs, the development, trends and administration of health services on the international, national, state and local basis. The epidemiological approach to disease control will be studied.

490 INDIVIDUAL RESEARCH

3 semester hours

494 METHODS OF TEACHING NURSING AND HEALTH

3 hours each semester

Application of the teaching-learning process to the informal health instruction of patients and their families and also to group teaching.

498 PRACTICE IN PUBLIC HEALTH NURSING

3 hours each semester

Experience in generalized public health nursing in an official agency. Included are observation and experience in all types of nursing care offered by the field agency through home visits and nursing in schools and in clinics. Supervision is provided by the College. Two-hour weekly conference on campus.

499 SPECIAL PROBLEMS IN NURSING

3 hours first semester, Evening

Advanced study of nursing problems, independent study using investigation techniques: collecting, analyzing and interpreting problems, evaluating outcomes. Correlated experience as needed.
Physics

Mr. Wilson

Physics courses are planned for three groups of students, those seeking a general education, those who wish to teach science in the elementary or secondary schools, those who wish to prepare for graduate study. The latter leads to college and university teaching or industrial physics.

General physics is the minimum preparation for those intending to do advanced work in engineering, medicine, dentistry, nursing, chemistry, or biology. Courses in physics are also recommended for all candidates for the B.A. and B.S. degrees.

Major Requirements for Bachelor of Arts

Twenty-eight hours are required for a major. Required courses are: Physics 111, 211, 212, 226, 357, and 358.

Major Requirements for Bachelor of Science

Twenty-eight hours are required supported by mathematics through the calculus and general chemistry. Differential equations, physical chemistry, and two years of a modern foreign language are recommended.

Minor Requirements

General education students are required to take 16 hours, including Physics 100, 111, and 211 and 212 or 213 and 214. (118, 119 recommended.) Sixteen hours are required for science minors, including the following courses: Physics 211, 212, 326, and 327.

Physics Courses

100 PRINCIPLES OF PHYSICAL SCIENCE

2 hours second semester

An integrated study of astronomy, chemistry, geology, and physics. Historical development, social implications, and future importance will be considered. A general course for liberal arts students—a foundation course for science students. Chemistry 100 (2 hours) must be taken concurrently. Two lectures a week.

111 PHYSICAL SCIENCE CONCEPTS

2 hours first semester

The major concepts of physical science are the basis for a new look at science for those already acquainted with it. High school algebra, geometry, and chemistry or physics (both are desirable) are prerequisite. Chemistry 111 (3 hours) must be taken concurrently. Two lectures a week.
118 ELEMENTARY PHOTOGRAPHY  
2 hours first semester
This course includes the elementary theory of photography and attempts to develop some skill in the exposing and processing of film, prints, and enlargements. Each student must have a camera. Supplies will cost about five dollars. One lecture and one laboratory a week. (Offered 1962-1963, and alternate years.)

119 MUSICAL ACOUSTICS  
4 hours second semester
Designed particularly for students of applied and theoretical music. The nature, production, and characteristics of musical sound and the physical basis of music will be studied. Three lectures and one laboratory a week. (Offered 1961-1962 and alternate years.)

211 GENERAL PHYSICS: Mechanics, Heat, and Sound  
4 hours first semester
A foundation course in physics. Physics 111, or equivalent, is prerequisite. Calculus should be taken concurrently. Three lectures a week and one laboratory.

212 GENERAL PHYSICS: Light, Electricity, and the Atom  
4 hours second semester
A foundation course in physics. Physics 211, or equivalent, is prerequisite. Three lectures and one laboratory a week.

213 GENERAL PHYSICS: Mechanics, Heat, and Sound  
5 hours first semester
A foundation course in physics. High school physics is desirable. Calculus should be taken concurrently. Three lectures and two laboratories.

214 GENERAL PHYSICS: Light, Electricity, and the Atom  
5 hours second semester
A foundation course in physics. Prerequisite: Physics 213, or equivalent. Three lectures and two laboratories.

217 PHYSICS OF THE HOME  
1 hour second semester
A study of the principles of operation of household equipment for cooking, cleaning, lighting, heating and of the other mechanical and electric appliances used in the home. Usually taken concurrently with Home Economics 280. (Offered 1961-1962 and alternate years.)

317 INTRODUCTORY ELECTRONICS  
4 hours second semester
A basic study of electron tube behavior. Related components and fundamental circuits are included. Analysis and measurement are emphasized. Three lectures and one laboratory.

318 TECHNICAL PHOTOGRAPHY  
2 hours second semester
A more advanced study of photographic processes and techniques. The uses of photography are emphasized. 1 lecture and 1 laboratory a week. (Offered 1962-1963, and alternate years.)

325 INTRODUCTION TO ATOMIC AND NUCLEAR PHYSICS  
3 hours—On demand
A non-mathematical study of the atom and the nucleus, their behavior and the methods of investigating them. Three lectures.

326 ATOMIC PHYSICS  
2 hours first semester
A study of atomic structure and behavior, and related experimental equipment. Physics 212 is prerequisite. (Offered 1962-1963, and alternate years.)

327 NUCLEAR PHYSICS  
2 hours second semester
A study of the nucleus and nuclear processes. Prerequisite: Physics 326, or its equivalent. (Offered 1962-1963, and alternate years.)

357 ELECTRICITY AND MAGNETISM  
3 hours first semester
A course in electrical theory. Physics 212 and calculus are prerequisite. Whenever possible, Physics 357 and 358 should be taken concurrently. (Offered 1961-1962, and alternate years.)

358 ELECTRICAL MEASUREMENTS  
2 hours first semester
An experimental study of the methods and equipment used to measure electrical and magnetic quantities such as field strength, potential, power, resistance, inductance, capacity, etc. Two laboratories a week. (Offered 1961-1962, and alternate years.)

361 PHYSICAL CHEMISTRY-THERMODYNAMICS  
3 hours second semester
An introductory study of the first, second, and third laws of thermodynamics, calorimetry, equations of state, Gibbs and Helmholtz functions, kinetic theory of gases, chemical equilibrium, Boltzmann distribution law, equilibrium and the equipartition of energy. Three lectures per week. Prerequisite: general physics and calculus or permission.

367 OPTICS  
4 hours first semester
Geometric and physical optics. Prerequisite: Physics 212 and Calculus. (Offered 1962-1963, and alternate years.)

417 HEAT MEASUREMENTS  
2 hours first semester
An experimental study of thermometry, calorimetry, pyrometry, and psychrometry. Physics 211 is prerequisite. One lecture and one laboratory a week.

463 NUCLEAR RADIATIONS  
3 hours first semester
A study of those areas of nuclear physics essential to an understanding of emissions and their measurement. Laboratory will emphasize measurement techniques. Prerequisites: Calculus and Physics 326. Two lectures and one laboratory. (Offered 1962-1963, and alternate years.)

482 THEORETICAL MECHANICS  
3 hours, second semester
Particle mechanics. Prerequisite: Physics 211, calculus, and differential equations.

499 SPECIAL PROBLEMS  
Credit to be arranged
Elementary research investigations.
SOCIAL SCIENCES

• HISTORY
• POLITICAL SCIENCE
• PSYCHOLOGY
• SOCIOLOGY
DIVISION IV. SOCIAL SCIENCES

The Social Science Division provides an understanding and appreciation of human relationships and social problems. It makes available a broad, liberal background for later professional study and furnishes the basis for informed and responsible citizenship.

SOCIAL SCIENCE MAJOR

Thirty-six hours are required. Eighteen hours must be upper division.

Eighteen hours are required in each of two fields chosen from economics, history, political science, psychology and sociology. Three hours of statistics must be included in any combination except that of history and political science.

HISTORY

Dr. Cunningham, Mr. Kamm

This department is concerned with the task of presenting factual matter in a clear and comprehensive manner and teaching the student how to relate the facts of past history to the problems of the present and the future. It also shows the close connection between history and political science in the study of political institutions. A further objective is to prepare the student for continued research.

MAJOR REQUIREMENTS

Twenty-five semester hours are required, including courses 231, 232, and either 101 and 102 or 369 and 370. It is strongly recommended that history majors take basic courses in political science and the other social sciences. Courses in literature and philosophy also complement the study of history.

MINOR REQUIREMENTS

Sixteen hours are required for a minor.

HISTORY COURSES

101, 102 HISTORY OF CIVILIZATION 3 hours each semester

A survey of world history from pre-literary times to the present. Emphasis is placed upon the continuity of history and the relation which the past bears to contemporary civilization.

231 AMERICAN HISTORY TO 1865 3 hours first semester

A general course dealing with the development of the United States, including the European background, the colonial era, the struggle for independence, the development of national life and institutions, and the growth of sectionalism culminating in the Civil War.

232 AMERICAN HISTORY SINCE 1865 3 hours second semester

A continuation of History 231, emphasizing the development of the West, big business, overseas interests, and world leadership.

344 POLITICAL HISTORY OF THE U. S. (pg. 58)

351 ECONOMIC HISTORY OF THE UNITED STATES 3 hours second semester

For course description, see Department of Economics and Business. (Offered 1960-61 and alternate years.)

353, 354 THE ANCIENT WORLD 2 hours each semester

The first semester includes a study of the pre-literary beginnings of patterns of human organization, the development of civilized life in the Ancient Near East; and the life and thought of the Greeks. The second semester deals with the development of the republic in Rome, and the rise and decline of the Roman Empire. Emphasis is laid on the contributions of the ancient world to the modern world. (Offered 1962-63 and alternate years.)

355, 356 HISTORY OF ENGLAND 2 hours each semester

Emphasis is placed on the development of social, economic, and political institutions from earliest Britain to the Commonwealth of Nations. Special work will be assigned those who are interested in constitutional developments. (Offered 1962-63 and alternate years.)

357, 358 RECENT AMERICAN HISTORY 2 hours each semester

A study of American History from 1900 to the present. Particular attention will be paid to the political, cultural, economic, and social development. (Offered 1961-62 and alternate years.)

359, 360 MEDIEVAL EUROPE 2 hours each semester

A study of Europe between the fall of Rome and the year 1500. This is often a neglected area of study. However it furnishes valuable understandings for the study of modern times as well as the development and place of the universal church. (Offered 1961-62 and alternate years.)

361, 362 AMERICAN DIPLOMACY 2 hours each semester

The origin and development of agencies and policies of diplomacy in America. (Offered 1961-62 and alternate years.)

369, 370 MODERN EUROPE 3 hours each semester

This is basically a survey of European History since 1500. The first semester considers the history of Europe from 1500 until the Congress of Vienna. The second semester continues the study of the history of Europe to the present. Emphasis is placed on the development of the modern world from the heritage of Medieval Europe.

371 THE RENAISSANCE 3 hours

An integrated study of the fundamental social, economic and political changes which attended the coming of the Renaissance; the outstanding literary, artistic, philosophic, musical and scientific developments and brilliant personalities which characterized this period; presented by instructors from these various fields of learning. May be applied toward either English or History. (Offered 1961-62 and alternate years.)
372 THE REFORMATION  2 hours second semester
A study of the major economic, social, political, and cultural developments of the 16th and 17th centuries with special reference to their relationship to the religious life of that time. (Offered 1961-62 and alternate years.)

375 COMMUNISM AND THE SOVIET UNION  3 hours
A broad study of a number of facets of communism, including philosophy, political science, literature, the arts, psychology, and history. (Offered 1960-61.)

400 CONTEMPORARY EUROPE  3 hours
This course is designed to give the student an understanding of the forces, men, and events that have shaped Europe’s destiny in this century. Special attention will be given to recent happenings in Europe and the threat of Communism.

475 COLONIAL AMERICA  2 hours
A study of the transplanting of European culture to American soil, the development of these colonies, and an analysis of the culture of the various colonies. (Offered 1960-61.)

476 THE AMERICAN REVOLUTION  2 hours
A study of the causes of the Revolution; the development of the philosophy of liberty, and how the cause was won on the field of battle. (Offered 1960-61.)

480 CIVIL WAR  3 hours
A study of the basic forces making for the spirit of disunity that developed between the North and the South; an examination of the basic political philosophy of each section; as well as a study of the military action. (Offered 1961-62.)

485 WASHINGTON STATE HISTORY AND GOVERNMENT  2 hours second semester
Historical development of the territory and State of Washington; study of the beginning and present government. A required course for education majors planning to teach in Washington.

491, 492 INDIVIDUAL CONFERENCE AND RESEARCH  1-3 hours each semester
Students are allowed to follow their own particular interests in history under guidance and will be held for detailed reports of their research. Review will be made of the various techniques and methods in research and the proper utilization of each. Credit given depends upon the amount of investigation done by the student.
Open only to seniors and graduates. The consent of the instructor is required for admission to this course.

495 SENIOR SEMINAR  1-3 hours each semester
An introduction to the methods of historical research. Required of all history majors.

POLITICAL SCIENCE

Dr. Chinn, Dr. Cunningham, Mr. Gray

The courses in political science are designed to acquaint one with the origin and nature of governmental organizations. The department seeks to promote perspective and balanced judgment in analyzing and interpreting world affairs.

MAJOR AND MINOR REQUIREMENTS

A major in political science consists of a minimum of 25 semester hours in political science; a minor, at least 16 hours. A foreign language is required of all who major in political science.

POLITICAL SCIENCE COURSES

101 AMERICAN NATIONAL GOVERNMENT  3 hours first semester
A study of the historical development and principles of the federal system of government in America; the territorial and functional distribution of government powers; civil rights; and political parties.

102 AMERICAN STATE GOVERNMENT  3 hours second semester
A study of state constitutions; the government and politics of states; and intergovernmental relations.

240 MODERN FOREIGN GOVERNMENTS  3 hours first semester
A comparative study of constitutional principles, governmental institutions, and political problems of selected governments abroad. Relates economic, historical, and social factors.

246 CURRENT EVENTS  2 hours first semester
A week-by-week analysis of major news items which furnish background and perspective for the social sciences. Uses current news magazine as text.

250 CONTEMPORARY DOMESTIC AND FOREIGN AFFAIRS  2 hours second semester
Continues Political Science 246 with emphasis on major problems of contemporary politics and foreign relations.

342 AMERICAN POLITICAL PARTIES  2 hours first semester
A study of political parties as an instrument in the development of the American democratic system. Role of pressure groups; nomination and election procedures. (1962-63 and alternate years.)

344 POLITICAL HISTORY OF THE UNITED STATES  2 hours second semester
Emphasis will be placed on the history of political parties and their place in the political history of the American Republic. (Offered 1962-63 and alternate years.)

351 INTERNATIONAL RELATIONS  3 hours second semester
A study of the factors, rules and forces which affect the relations of the national states; attempts to establish international organizations. (Offered 1962-63 and alternate years.)
357 STATE AND FEDERAL COURTS
3 hours second semester
The course will include a study of the following: history of the courts and legal rights, trials and trial procedures, civil and criminal law principles, and structure of state and federal court systems. (Offered 1962-63 and alternate years.)

361, 362 AMERICAN DIPLOMACY
2 hours each semester
The origin and development of agencies and policies of diplomacy in America. (Offered 1961-62 and alternate years.)

365 AMERICAN CONSTITUTION
3 hours
A study of the growth and development of the Constitution of the United States as reflected in the decisions of the Supreme Court. Special stress upon principles of the federal system; civil and political rights; executive power, powers of Congress, the Judiciary; the regulation of commerce; and taxation. (Offered 1961-62 and alternate years.)

370 PROBLEMS IN GOVERNMENT
2 hours alternate years
An intensive inquiry on the advanced level into selected problems of modern government. Needs and interests of individual students will influence the selection of topics. (Offered 1961-62.)

371 PUBLIC ADMINISTRATION
3 hours second semester
Development of public administration and its relation to other branches of government. Principles of organization; processes and techniques of policy execution. (Offered 1961-62 and alternate years.)

433 HISTORY OF EUROPEAN POLITICAL
THOUGHT
3 hours first semester
The thought of the political philosophers and the development of basic concepts of the state from the time of Plato to present. (Offered 1962-63 and alternate years.)

445 AMERICAN POLITICAL
THOUGHT
3 hours second semester
A study of the principal ideas which have influenced the development of political institutions and policies in the U. S. Includes such thinkers as Roger Williams, Thomas Paine, John Marshall, Jefferson, Calhoun, Lincoln, and later figures. (Offered 1962-63 and alternate years.)

491, 492 INDIVIDUAL
CONFERENCE
1-3 hours each semester
Students are allowed to follow their own particular interests in this field under guidance and will be held for detailed reports of their research. Credit given depends upon the amount of investigation. Open only to seniors and those majoring in Political Science.

493 SENIOR SEMINAR IN POLITICAL
SCIENCE
2-3 hours each semester
A group study of social science research methods and their application to the field of political science. Preparation of research papers. Required of seniors majoring in the department.

PSYCHOLOGY
Dr. MacDonald, Dr. Beach, Dr. Quall

Course offerings in the department of psychology are designed to provide students with a knowledge of the facts, problems, and research findings in the basic behavioral processes. The student is introduced to the basic methods of psychology, including quantitative, experimental, and clinical techniques. The concepts and issues of psychology are viewed from different theoretical positions and in historical perspective. A further aim is the development of rigorous habits of thinking and observation coupled with a scientific and open-minded attitude in approaching and dealing with problems. Students are encouraged to apply psychological principles in their own personal and social adjustment.

A major in psychology can be a first step toward any of a number of professional opportunities. Among them are college teaching, research, personnel work in industry and government, psychometrics, vocational and personal guidance in schools and colleges, clinical work with either children or adults in guidance clinics, juvenile and criminal courts, and mental hospitals. Nearly all of these positions require graduate work leading to the M.A. or Ph.D. degree. In addition, the major or a minor in psychology will equip the student with understandings and techniques beneficial in related vocations of teaching, the ministry, social work, business and nursing.

MAJOR REQUIREMENTS
The pre-professional major in psychology consists of at least 30 semester hours of credit, including the following required courses: 101, 210, 305, 362, 383, 454, 495, 496, and either 324 or 359.

An alternate major is designed to meet the needs of students planning to enter related vocations such as social work, business, Christian education, and the ministry. The alternate major consists of at least 30 semester hours of credit, including the following required courses: 101, 210, 241 or 267, 305, 324 or 359, 327, 362 or 383, 468, 495 and 496.

Students majoring in psychology are encouraged to elective courses in the biological sciences, including anatomy, physiology and genetics for the required laboratory science. Courses in mathematics and at least one course in philosophy are highly recommended. It is recommended that General Psychology be taken in the freshman year, and that Developmental Psychology be completed prior to the second semester of the sophomore year. Greater liberty in the scheduling of required courses is possible if Statistics is taken during the second semester of the sophomore year.

MINOR REQUIREMENTS
A minor consists of at least 16 hours.

PSYCHOLOGY COURSES

101 GENERAL PSYCHOLOGY
3 hours each semester
A survey of the field of psychology, including an introduction to the basic psychological concepts of maturation, motivation, perception, learning, emotion, emotional conflict, thinking, intelligence, and personality. (This course is a prerequisite to all courses in psychology.)
210 DEVELOPMENTAL PSYCHOLOGY 3 hours each semester
A study of physical, social and emotional growth and development from birth through adulthood. The course is designed to give an understanding of the individual in life situations. Prerequisite: 101.

240 CHILD PSYCHOLOGY 2 hours each semester
A course designed for nurses only, and offered at the hospital. The study of physical, intellectual, social, and personality growth from infancy through adolescence. Prerequisite: 101.

241 SOCIAL PSYCHOLOGY 3 hours first semester
Study of the interaction of the individual personality with his group and with other individuals. Emphasis is placed on the socialization of the personality, interpersonal relations, the behavior and interaction of groups, and other social-psychological phenomena. Prerequisite: 101.

267 GROUP DYNAMICS 2 hours second semester
Systematic study of the characteristics of face-to-face groups: cohesiveness, goal-setting, decision-making, styles of leadership, membership roles. Emphasis is placed on practical applications of group dynamics theory; observations are taken of groups in action. Prerequisites: 101. (Limited enrollment.)

305 STATISTICS 3 hours each semester
Statistical methods and their application to social problems, with emphasis on the use and interpretation of statistical data. Prerequisite 101.

324 PSYCHOLOGY OF ADJUSTMENT 3 hours first semester
A study of human adjustment with emphasis on motivation, frustration and conflict, varieties of adjustment behavior, and positive mental hygiene. Emphasis is placed on the application of adjustment principles to the personal life of the student. Prerequisites: 101 and 210.

327 PSYCHOLOGY OF PERSONALITY 3 hours second semester
An examination of the major theories of personality development and structure. Study of the formation and function of the individual personality. Prerequisites: 101 and 210. (Offered 1962-63 and alternate years.)

359 ABNORMAL PSYCHOLOGY 3 hours second semester
A study of the nature of behavior pathology with emphasis on developmental factors, behavior syndromes, and problems of diagnosis and treatment. Prerequisites: 101, 210, 324 or 327, or permission of the instructor.

362 EXPERIMENTAL PSYCHOLOGY AND LABORATORY 3 hours second semester
A laboratory course in the fundamentals of psychological research and experimentation. Training in the scientific methods and tools of modern experimental psychology, with emphasis on student design and execution of experiments, interpretation of data, and the writing of reports. Two consecutive periods twice weekly. Prerequisites: 101, 305.

377 PSYCHOLOGY OF RELIGIOUS EXPERIENCE 2 hours second semester
Systematic study of religious experience from the psychological viewpoint. Experiences such as worship, conversion and prayer are discussed in the light of psychological concepts and insights. Prerequisite 101.

383 PSYCHOLOGICAL THEORY AND HISTORY 3 hours first semester
A study of the nature and problems of theory construction in psychology. Contemporary issues in psychology are viewed in historical perspective and from different theoretical positions. Prerequisite: Six hours in psychology exclusive of statistics. A course in philosophy is highly recommended. (Offered 1962-63 and alternate years.)

436 BUSINESS AND INDUSTRIAL PSYCHOLOGY 3 hours second semester
The methods of psychology applied to the problems of business and industry. Employee appraisal through development and use of evaluative instruments, employee selection, training, morale, fitness, productivity. The psychological principles involved in selling, advertising and personnel problems. Prerequisites: 101, 305. (Offered 1961-62 and alternate years.)

454 MEASUREMENT IN PSYCHOLOGY 3 hours first semester
Theory of psychological measurement. A survey of individual and group tests employed in the measurement of general abilities, aptitudes, interests and personality characteristics, together with problems of administration, scoring and the interpretation of test results. Prerequisites: 101, 305.

468 THEORY AND PRINCIPLES OF COUNSELING 2 hours second semester
An introductory course in the purpose and theory of the counseling process, functions of the counselor, introduction to interview technique, individual appraisal and records in the counseling process. Prerequisites: 101, 210 and either 327, 324, or 359.

489 READINGS IN PSYCHOLOGY 2-3 hours
Directed readings on topics chosen in consultation with the departmental staff. Open to advanced students only. Prerequisite: Majors only, with permission of the department head.

490, 491 INDEPENDENT RESEARCH 2-3 hours
Systematic investigation involving the application of statistical method to a specific problem. Open only to senior psychology majors and graduate students. Work to be done in consultation with the Head of the Department of Psychology.

495, 496 SENIOR SEMINAR 1 hour each semester
Seminar discussions on major concepts in psychology. Discussions based on independent readings and guided by members of the faculty. Designed to integrate previous learnings in psychology.
SOCIOLOGY

Dr. Schlauch, Dr. Beach, Mr. Houser

Sociology develops an understanding and appreciation of human relationships and social problems. It also provides a broad liberal background for later professional study in law, medicine, the ministry, and social work.

Students in sociology may prepare themselves for any one of the following fields of work: College teaching of sociology, social service work (See Professional Studies Section, page 23), playground director, director of youth groups, probation or parole officer, criminologist, work with city and regional planning agencies, rural social administration, public opinion polling and market research, social science analyst, counseling in schools or camps, recreation supervisor, social research, and public administration. It is understood that to qualify for many of these positions the student will have to do graduate work in sociology or social work, or in other specific fields.

Through an arrangement with the Spokane Y.M.C.A. and the Y.W.C.A., the Sociology Department offers a series of courses in leadership training in social group work, including actual practice in the leadership of boys' or girls' groups at various age levels. The Y.M.C.A. and the Y.W.C.A. pay the expenses of these leaders to and from the places where they have charge of their youth groups.

MAJOR REQUIREMENTS

Twenty-five hours are required for a major in sociology, including courses 111, 112, 241, 305, and 376. It is recommended that sociology majors take principles of economics, United States history, American government, and considerable psychology.

Students preparing to teach in the public schools of the State of Washington under the General Certificate, and choosing social studies as their broad field, may include six hours of approved sociology courses among the sixteen hours required for the second teaching area.

A foreign language is required of sociology majors.

MINOR REQUIREMENTS

Sixteen hours are required for a minor, including courses 111, 112, and 241.

SOCIOLOGY COURSES

111 INTRODUCTION TO SOCIOLOGY 3 hours each semester
A study of the major concepts of sociology. This course provides a background for further study in the field of sociology. It is the course required of students majoring in the field.

112 SOCIAL PROBLEMS 3 hours each semester
A study of our chief social problems; their causes, their results, and some suggested solutions.

231 CULTURAL ANTHROPOLOGY 3 hours first semester
A study of comparative cultures, both primitive and modern.

233 YOUTH AND MARRIAGE 2 hours second semester

237 CRIMINOLOGY 3 hours first semester
A study of crime: nature and extent, causes, control; rehabilitation of the criminal. (Offered 1962-63 and alternate years.)

241 SOCIAL PSYCHOLOGY 3 hours first semester
A study of the relationship between social organizations and the personality attributes of members of society. The social nature of ethnic, racial, class, and sex differences. The development of socialized personality.

242 RACE RELATIONS 3 hours second semester
A study of races and cultures, race attitudes and conflicts, race problems and race relations; special reference to problems in the United States.

243 LEADERSHIP TRAINING FOR SOCIAL GROUP WORK 2 hours first semester
Principles and practices of social group, especially as applied in Y. M. C. A., Y. W. C. A., and other social group work agencies in the community. (This course, along with courses 359 and 360, is given in cooperation with the Y. M. C. A. and the Y. W. C. A. of Spokane.)

305 STATISTICS 3 hours each semester
Statistical methods and their application to social problems, with emphasis on the use and interpretation of statistical data.

353 THE FAMILY 3 hours second semester
A study of the family in various cultures; family problems, approaches to their solution.

359, 360 SUPERVISED GROUP WORK 2 hours each semester
Students taking these courses will spend approximately six to eight hours a week organizing and directing groups in connection with the Y.M.C.A. or the Y.W.C.A. In addition, there will be conferences of these leaders on the seminar basis at stated intervals.

363 THE COMMUNITY IN AMERICAN SOCIETY 3 hours second semester
A study of the structure and functions, the organizational aspects, and the social and economic problems of the community.
364 PUBLIC OPINION 3 hours first semester
A study of the various factors in the formation of public opinion: the press, the radio, the public platform; censorship, propaganda, education; the techniques in democracies and in dictatorships.

365 CONTEMPORARY SOCIAL MOVEMENTS 3 hours first semester
A study of the nature and origin of such social movements as socialism, communism, fascism, and social democracy. (Offered 1961-62 and alternate years.)

371 INTRODUCTION TO SOCIAL WELFARE 3 hours first semester
A study of the basic principles and practices in modern case work and community organization. Study of the present social work agencies, both public and private, and the roles and functions of social workers and administrators.

372 FIELD OBSERVATION 2 hours second semester
Supervised field work with social agencies. Prerequisite, course 371.

373 FIELD WORK 2 to 8 hours
This course is an expansion of course 372, available only occasionally, as local agencies offer opportunity. Each student has a special project with a particular social agency, requiring large blocks of time. Prerequisite, course 371.

376 SOCIAL THEORY 3 hours first semester
An introduction to social theorists whose works are guideposts in modern sociology. Emphasis is on the contributions of Comte, Spencer, Marx, Durkheim, Simmel, Max Weber, Cooley, Merton, and Parsons. (Open only to senior sociology majors, except by permission of the instructor.)

377 SOCIAL RESEARCH 3 hours second semester
An examination of the methodology and methodological assumptions of contemporary sociology. (Open only to senior sociology majors, except by permission of the instructor.)

491, 492 INDIVIDUAL CONFERENCE AND RESEARCH 2-4 hours each semester
Students are allowed to follow their own particular interests in this field, and will be held for detailed reports on their research. Credit given depends upon the amount of work done, and the results of the investigation.
Today's super airliners—like the giant new Douglas DC-6—are a boy's dream come true.

For at seventeen young Donald Douglas saw the Wright Brothers fly the world's first airplane that day. He walked away from school one day and went back to the shops of the old Wrigley Aircraft Co. to work at night. To him it was a part of his life—designing and building planes to do the job.

As far back as 1929 Douglas, who then owned a small airplane line, offered the world's airlines his rugged, efficient DC-3. An airline that didn't cost much, was well made, and offered comfort. By 1938 the DC-3 was flying—ready to transport millions of men ever all the world.
DIVISION V. BUSINESS AND COMMUNICATION ARTS

The Business and Communication Arts Division, recognizing its cultural obligation, seeks to acquaint students with the history, principles, and influence of our dynamic economic system and of our media and methods of communication. Through its various courses in its member departments, the Division prepares students to function as competent men and women in handling the work and problems of the business world and in the reporting and interpreting of human affairs.

ADVERTISING

Mr. Gray, Mr. Sprague

Advertising offers a wide variety of activity and a rewarding life's work to young people with creative and constructive talents. It provides the opportunity for the free, liberal use of creative imagination, artistic talent, showmanship, expression and persuasion.

The Whitworth advertising curriculum was planned jointly by advertising professional men and the faculty and has been approved by the Spokane Advertising and Sales Association. It combines the best in a liberal arts education with the specialized knowledge required in today's competitive world and leads to a B.A. degree. It offers to students during the senior year on-the-job training in local advertising offices, such as agencies, newspapers, television and radio stations, outdoor advertising firms, and department stores.

MAJOR REQUIREMENTS

Twenty-six hours are required for a major, including courses 248, 249, 250, and 251.

A major also requires Econ. 101, 102, 236; Journalism 125, 244; Psychology 101; 6 semester hours in Sociology including Soc. 300; 6 semester hours in History; and 6 semester hours in English or American Literature.

MINOR REQUIREMENTS

Seventeen hours are required for a minor, including courses 248 and 249.

ADVERTISING COURSES

248 ESSENTIALS OF MARKETING 3 hours first semester

A basic course dealing with the methods, policies, and institutions involved in the distribution of goods from the producer to the consumer; the marketing activities of manufacturers, wholesalers, and retailers; methods for improving efficiency and lowering distribution costs.

249 ESSENTIALS OF ADVERTISING 3 hours second semester

An overall view of the entire field of advertising. Provides a background for specialized advertising courses and essential information for business executives and others who use advertising media to communicate with the public. It deals with the structure and scope of the advertising industry; preparation of the message—visualization, copy, illustration and color, layout, production and printing, television and radio commercials; and a survey of advertising media, campaign planning, and research practices.

250, 251 ADVERTISING COPY 3 hours each semester

A study of the nature and purpose of advertising copy; essential principles of construction; the use of specific product benefits and selling points; writing effective headlines; using human interest material; preparing television and radio commercials. Practice assignments for various media. (Offered 1962-63 and alternate years.)

352 ADVERTISING PRODUCTION 3 hours second semester

A study of the steps and techniques used in building the printed advertisement including visualization of the appeal, focusing attention by layout, selection of illustrations and color, the use of various printing processes, typography, paper stock and the preparation of dummies for direct advertising. (Offered 1961-62 and alternate years.)

353 PRINCIPLES OF RETAILING 3 hours second semester

A study of the operation and management of various types of retail institutions. Includes store location, organization, personnel, buying, merchandise budgeting, inventory control, pricing, credit, selling, advertising, sales promotion, customer services; expense classification, analysis, and control. (Offered 1962-63 and alternate years.)

354 INTERNATIONAL MARKETING 3 hours second semester

A consideration of the marketing functions involved in foreign trade. Includes the organization and structure of import and export markets; export selling; foreign market analysis; price policies and quotations; direct and indirect methods of purchasing foreign products; international advertising techniques, selection and use of media; translation problems. (Offered 1961-62 and alternate years.)

355 ADVERTISING PSYCHOLOGY AND RESEARCH 3 hours first semester

A study of the satisfactions which people seek and which prompt them to buy and the psychological techniques used in reaching them through advertising. Emphasis is placed on such psychological concepts as motivation, perception, and sensitivity in relation to advertisements and media. (Offered 1961-62 and alternate years.)

356 DIRECT ADVERTISING 3 hours first semester

Practice in the preparation of various types of sales literature including letters, booklets, brochures, folders, and catalogues to meet typical sales problems. (Offered 1961-62 and alternate years.)
357 TELEVISION AND RADIO ADVERTISING
3 hours first semester
A study of television and radio as advertising media including
network, regional, and spot facilities. Preparation of programs and commercials and tests of their
effectiveness, station selection, time buying, and audience measurement techniques. (Offered 1962-63 and
alternate years.)

358 SALESMANSHIP
3 hours first semester
The essential principles of selling and their practical application to the sale of various products and services
involving space and time in advertising media. Practice in preparation and delivery of sales presentations.

362 SALES MANAGEMENT
3 hours second semester
Organization of a modern sales organization; recruiting,
training, and equipping salesmen; assignment of responsibilities; allocating territories; setting quotas;
methods of stimulating and compensating salesmen; types of sales control and sales promotion. (Offered
1961-62 and alternate years.)

480 ADVERTISING CAMPAIGNS AND MEDIA
3 hours second semester
Practice in the development of advertising campaigns and the use of media for various products and services.
Includes the preparation of schedules to fit specific advertising appropriations and objectives. (Offered
1962-63 and alternate years.)

483, 484 APPLIED SALESMANSHIP
3 hours each semester
Practical experience in selling through part-time employment in local business firms. A minimum of one
hour of class instruction and two hours of actual sales work will be required each week. Prerequisite: Adver-
tising 358 or permission of the instructor.

485, 486 PRACTICAL EXPERIENCE
3 hours each semester
Practical experience in advertising work through part-
time employment in local business firms. A minimum of one
hour of class instruction and two hours of actual sales work will be required each week. Prerequisite: Adver-
tising 358 or permission of the instructor.

488 ADVERTISING MANAGEMENT
3 hours first semester
Discussion of advertising strategy from the viewpoint of top management including a study of the, special
problems faced by advertising and business executives in administering an advertising program. Actual cases
from business are examined. Prerequisite: Advertising 249 or permission of the instructor. (Offered
1961-62 and alternate years.)

490 MARKETING RESEARCH
3 hours second semester
Practical training in the basic principles and tech-
niques of research in marketing including questionnaire,
design, preliminary testing, interviewing, sampling,
tabulation, and report writing.

492 SEMINAR IN MARKETING
3 hours each semester
Special projects or research in Advertising, Selling or
Marketing. Open only to qualified seniors.

495 MARKETING MANAGEMENT
3 hours first semester
An analysis of the major areas of marketing from the
viewpoint of the marketing executive who organizes,
directs, and coordinates the activities of those engaged in
performing the more specialized marketing functions.
Consideration is given to problems relating to pricing,
channels of distribution, advertising, personal selling,
and marketing research with particular emphasis on
the formulation of over-all policies. Prerequisite: Adver-
tising 248 or permission of the instructor. (Offered
1962-63 and alternate years.)

ECONOMICS AND BUSINESS MANAGEMENT
AND SECRETARIAL SCIENCE

Dr. Dixon, Dr. Bibb, Miss Evans, Mrs. Qual!

The objectives of this department are integrated with
the primary objectives of the College. The central goal is to prepare students for life in its fullest
sense. A broad liberal arts education is stressed which
includes the basic tenets and teachings of our Chris-
tian faith. Built on this foundation are a series of
theory and orientation courses to provide a basic understanding of our economic system and its pri-
mary institutions.

For the student preparing for graduate work, selected courses are provided which will equip him
for his graduate study.

Students wishing to enter the business world may
choose from a variety of specialized courses in making
the transition to the business world an easy one.

Secretarial Science offers specialized training for
secretarial work and teaching business subjects in
high school.

MAJOR REQUIREMENTS FOR ECONOMICS
Thirty hours are required for a major, including 101,
102, 230, 231, 236, 240, 301, 351, 411, and 465. It is recommended that majors in economics elect courses in
mathematics, psychology, and sociology. A foreign language is recommended for those who are interested in graduate study.

MINOR REQUIREMENTS FOR ECONOMICS
Sixteen hours are required, including 101 and 102.

MAJOR REQUIREMENTS FOR BUSINESS
MANAGEMENT
Thirty-three hours are required for a major, including
101, 102, 230, 231, 236, 240, 301, 351, 371, 373, and 471.

MINOR REQUIREMENTS FOR BUSINESS
MANAGEMENT
Sixteen hours are required, including 101 and 102.

MAJOR REQUIREMENTS FOR SECRETARIAL
SCIENCE
Thirty hours are required, including 101, 102, or 203,
204; 105-106 or 207, 208; 236, 240, 363, and EB 230,
231. If satisfactory preparation has been made in Secre-
tarial Science, 101, 102, 105 and 106, these courses are
waived and the student chooses second-year courses.

MINOR REQUIREMENTS FOR SECRETARIAL
SCIENCE
Sixteen hours are required. Unless adequate preparation
has been made in shorthand and typing, a minor includes
Secretarial Science 101, 102, or 105, 104; 105-106, or 207,
208; 235 and 240. When there has been satisfactory prep-
paration in shorthand and typing, Secretarial Science 363,
EB 230, 231, and elective courses in economics and busi-
ness may be substituted.

It is recommended that secretarial science students elect courses in history, sociology, psychology, literature, and
economics to acquaint them with the social and cultural
development of the world.
MAJOR REQUIREMENTS

Twenty-six semester hours are required for a major, including the following courses: 115, 125, 242, 247, 354, 357, 360, 470, and 481. Subject to the approval of the journalism faculty, the journalism major may choose that sequence of courses (journalism plus pertinent courses in other fields) which will meet his post-college objective, whether that be in (1) newspaper work, (2) magazine writing and editing, (3) public relations, (4) religious journalism, or in (5) teaching journalism. Miscellaneous requirements for the journalism major will include a course in photography, a course in typing (or successful completion of a validating test in the subject which must be met not later than the junior year), and at least 24 semester hours in social sciences taken from at least four fields. Study of a foreign language is strongly recommended. A journalism major must maintain a 2.5 grade point average in journalism.

During the senior year the qualified journalism student may elect to receive on-the-job experience with a commercial publication or with a radio or television station.

MINOR REQUIREMENTS

Sixteen semester hours are required for a minor, including 115, 242, 354, and 481.

RELIGIOUS JOURNALISM MINOR

The department offers a religious journalism minor as a service to preministerial students and Christian education majors. Sixteen hours are required for the minor with the following courses recommended: 242, 244, 248, 360, 481, and 482.

JOURNALISM COURSES

115 PRINCIPLES OF JOURNALISM

3 hours first semester

An explanation of what journalism is and the study of its importance and influence. Analysis of various media of communication and their relation to American culture and society. Principles and problems of mass communication.

125 REPORTING

3 hours second semester

Lectures, practice and group discussion of the work of the reporter. Principles of news gathering and news writing.

242 EDITING

3 hours first semester

Instruction and practice in editing copy, writing headlines, make-up, evaluating news, etc. Prerequisite: 125.

244 PUBLICITY AND PUBLIC RELATIONS

2 hours

Principles and practices of publicity and public relations in business, industry, government, and social agencies. Analysis of public opinion and propaganda. Use of surveys, publicity, advertising, and special events in public relations.

245a, b. APPLIED JOURNALISM

1 hour each semester

Staff members of THE WHITWORTHIAN (245a) and of THE NATSHI (245b) will receive, if their work is satisfactory, not more than one credit each semester.

247 HISTORY AND INFLUENCE OF THE PRESS

3 hours second semester

A study of the evolution and influence of newspapers and magazines, with special reference to problems of present-day journalism. Study of relation of newspapers and magazines to public opinion, government, and society. (Offered 1960-61 and alternate years.)

248 INTRODUCTION TO RELIGIOUS WRITING

3 hours second semester

The course will emphasize instruction and practice in writing techniques needed by church workers, both lay and professional. The following subjects will be covered: religious publicity for newspapers and magazines; production of church publications; and writing of church letters, annual reports, and devotional materials.

354 ADVANCED JOURNALISM

3 hours second semester

Advanced problems and projects with special emphasis given to public affairs journalism. (Offered 1961-62 and alternate years.)

357 STATE AND FEDERAL COURTS

3 hours second semester

The course will include a study of the following: history of courts and legal rights, trials and trial procedure, civil and criminal law principles, and structure of state and federal court systems. Political Science credit will be given for this course. (Offered 1962-63 and alternate years.)

360 EDITORIAL WRITING

2 hours first semester

The theory and practice of editorial writing; analysis of editorial policy; interpretation of news. (Offered in 1962-63 and alternate years.)

368 TEACHING JOURNALISM AND SUPERVISING PUBLICATIONS

3 hours first semester

Lectures on teaching journalism courses and supervising publications on high school and college levels. (Offered 1961-62 and alternate years.)

370 LAW OF PRESS, RADIO, AND TELEVISION

2 hours first semester

Lectures and readings in libel and slander, right of privacy, copyright, and other legal phases pertaining to media of communication. (Offered 1962-63 and alternate years.)

475 PRACTICAL JOURNALISM EXPERIENCE

2-4 hours

Limited to qualified journalism seniors who may elect to receive on-the-job experience with a newspaper, magazine, radio, or television station.

481 WRITING FOR PUBLICATION I

3 hours first semester

Lectures and practice in preparing feature articles for newspapers and magazines. Each student in class will submit articles as free lance efforts. Students interested in religious journalism will be assigned special projects in that field. (Offered 1961-62 and alternate years.)

482 WRITING FOR PUBLICATION II

3 hours second semester

An advanced feature writing course. Prerequisite: 481. (Offered 1961-62 and alternate years.)

490 RESEARCH

1 or 2 hours

Opportunity for advanced students to do journalistic research. Work to be done in consultation with the head of the journalism department. Students must have at least senior standing.
DIVISION VI. EDUCATION

This division actively shares in the preparation of individuals for teaching at all levels of education. Opportunity is given for the layman to take courses which will be of general interest even though the primary objective is to provide instruction which will enable students to be fully prepared to enter the teaching profession. The divisional offerings provide opportunity for the student to develop a desirable level of physical fitness and to become well trained in the entire area of physical education, as well as education.

EDUCATION

Dr. Jones, Dr. LaCoste, Dr. Quall, Dr. Johnson, Mrs. Tiffany, Mr. Wurster, Dr. Beach, Dr. Schlauch, Dr. Cunningham, Dr. MacDonald

The ideal of a good program of teacher preparation is to develop each prospective teacher's personality, knowledge, and skill to the point of maximum teaching efficiency. Whitworth believes this ideal is most likely to be attained through providing students with a thorough understanding of their teaching subjects, through developing poise and confidence in the use of effective teaching methods, and by encouraging students to dedicate themselves to the challenging demands of membership in the teaching profession.

The Education Department, in cooperation with all other departments, introduces the student to the high level of cultural and aesthetic living essential for teachers of American youth. Teaching candidates are expected to understand the subject matter in two or more broad fields commonly taught in elementary and secondary schools. Attention is given to the development of effective skill in education procedures and to the professional integrity needed for strict adherence to these procedures in classroom situations. Evaluation is also made of the individual's personal characteristics and attitudes as they pertain to a successful teaching career.

The State Certification Requirements for Washington may be found under Teaching p. 24.

EDUCATION COURSES

210 DEVELOPMENTAL PSYCHOLOGY
3 hours each semester
The growth and development of the child from birth through adolescence, including the learning process. Designed to give an understanding of the child in life situations.

222 CHILDREN'S LITERATURE
2 hours second semester
Study of the scope of elementary school literature and materials and methods relative to meeting growth needs of children through literary adaptation.

231 ELEMENTARY CLASSROOM MUSIC
2 hours
For course description, see Music Department.

305 STATISTICS
3 hours each semester
Statistical methods and their application to social problems, with emphasis on the use and interpretation of statistical data.

331 USING AUDIO VISUAL AIDS
2 hours first semester
The theory and practice of using effectively modern audio-visual aids and materials for teaching. Adult education will be considered.

333 MUSIC EDUCATION FOR THE ELEMENTARY SCHOOL
2 hours
For course description, see Music Department.

335, 336, 339 INSTRUMENT METHODS
2 hours
For course description, see Music Department.

337 CURRICULAR MATERIALS AND METHODS
3 hours each semester
Included are studies of the nature of learning, class management, unit development, evaluative techniques, and the scope of instructional materials and methods typically used in modern elementary schools. A minimum grade point average of 2.25 at time of registration is required.

338 CURRICULAR MATERIALS AND METHODS
3 hours each semester
Included are studies of general principles of education and the scope of instructional materials. Particular application is made to secondary schools. A minimum grade point average of 2.25 at time of registration is required.

340, 346 CHORAL AND INSTRUMENTAL TECHNIQUES
2 hours
For course description, see Music Department.

353 ART EDUCATION METHODS
2 hours
For course description, see Art Department.

365 METHODS IN TEACHING BUSINESS SUBJECTS
2 hours
For course description, see Secretarial Science Department.
371 ORIENTATION TO COLLEGE TEACHING
1 hour first semester
A course intended for students considering college teaching as a career. It deals with these five topics: (1) The aptitude of the student; (2) Motivation for college teaching; (3) Orientation to college problems; (4) Orientation to graduate requirements and degrees; (5) Orientation to research.

411 EDUCATIONAL PSYCHOLOGY
2 hours first semester
A psychological treatment of practical problems in education and a systematic exposition of psychological data basic to education. Throughout, the course is concerned with the practical, giving mature consideration to experimental investigations about the educative process. Given on demand.

412 TESTS AND MEASUREMENTS
2 hours second semester
Analysis of individual and group psychological tests and their application to progress of the pupil. Time will be given to problems in making of classroom tests in classroom subjects.

413 THEORY OF COUNSELING AND GUIDANCE
2 hours first semester
A study of how to gather as much relevant information as possible about each pupil, how to organize it so that it shows his status at any given time and growth, and of how to use these data with understanding in the distribution and adjustment of individual pupils.

420 ELEMENTARY READING
2 hours each semester
A course designed to teach the processes of directing children of the elementary grades in the effective use of modern reading materials.

421 ARITHMETIC IN THE ELEMENTARY SCHOOL
2 hours first semester
A course designed to teach the processes of directing children of the elementary grades in the effective use of the arithmetic and number system.

423 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL
2 hours first semester
Study of curricular materials and methods in social studies for the elementary level.

424 GENERAL SCIENCE IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL
2 hours second semester
Adapting the needs of elementary and junior high school students to the field of general science. A presentation of modern methods and materials of science teaching.

425 TEACHING IN THE JUNIOR HIGH SCHOOL
2 hours fall semester
An up-to-date presentation of junior high school education—its historical development, its basic philosophy and its practices. The course aims to provide a comprehensive treatment of the subject adapted to the needs of students intending to teach at the junior high school level.

426 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL
2 hours second semester
Emphasis upon the teaching of the language arts, speech, oral and written expression, creative and dramatic work, handwriting and spelling, to meet the needs of the elementary school child.

431 ORGANIZATION OF CLASS MATERIALS IN THE ELEMENTARY GRADES
2 hours first semester
A course adapted to the needs of class members; group specialization at various levels.

432 STUDIES IN ELEMENTARY SCHOOL PROBLEMS
2 hours second semester
A broad, general study of problems in elementary education. Teachers and students choose problems which are typical in a classroom and work them out in a seminar.

434 STUDENT ACTIVITY PROGRAMS
2 hours spring semester
An analysis of secondary school activity programs with regard to purposes, types of programs, planning of activities and the function and evaluation of such programs.

441 PHILOSOPHY OF EDUCATION
2 hours first semester
A philosophical treatment of the function of schools in our time. The course attempts to bring into focus the objectives and goals towards which our educational system is moving. It has significance, not only for the teacher, but for all those who are concerned with our educational destinies.

442 COMPARATIVE EDUCATION
2 hours spring semester
A comparative study of the common educational programs available to youth in the principal countries of Western Europe, the United States, and the Soviet Union. Attention is centered on the forces that determine the character of education in each nation.

452 EDUCATIONAL SOCIOLOGY
2 hours second semester
The function of education in society, the nature and function of the school, the curriculum, the social objectives of education, democracy and education, vocational guidance, other social agencies besides the school, social control and education.

460 STATE MANUAL
1 hour each semester
A study of Washington State School Law, supplemented by lectures and discussion on the general field of education in the state of Washington.

481, 482 RESEARCH SEMINAR
1-3 hours as arranged
Students are provided with the opportunity to do special research according to their interests with the guidance of the Chairman of the Department.

483 SPEECH FOR THE CLASSROOM TEACHER
3 hours
For course description, see Speech Department.

487 SPECIAL METHODS OF TEACHING ENGLISH IN SECONDARY SCHOOLS
2 hours
For course description, see English Department.
488 SPECIAL METHODS OF TEACHING THE SOCIAL SCIENCES 2 hours
A study of the development and present status of social studies programs in junior and senior high schools; contribution of social studies in developing civic and social competence; analysis of typical teaching materials, common textbooks, classroom methods of teaching and of evaluation.

490E DIRECTED TEACHING AND OBSERVATION, ELEMENTARY 8 hours each semester
Eight weeks of daily observation and teaching of classes in the public schools of the area. Supervision by the regular teachers to whom the cadet is assigned. A one-hour conference period weekly is required of the class, and individual conferences are required at appointed times. Open to seniors and graduate students with approved teaching fields. Required for certification. Special fee for the proper remuneration of a master teacher in the public school system and school administrators. See section on financial information. A minimum grade point average of 2.25 at time of registration is required. Prerequisites: Education 210, 337, 338, Laboratory Experiences, and September Experience.

490S DIRECTED TEACHING AND OBSERVATION, SECONDARY 8 hours
See course description in 490E above.

GRADUATE COURSES IN EDUCATION

Any graduate course not described below will carry a number above 500.

501 ADVANCED TECHNIQUES OF COUNSELING AND GUIDANCE Three hours
A graduate seminar course considering the psychometrics and indirect methods of counseling and readings as basic consideration for directing educational and vocational programs of school children. The student may elect either the elementary or secondary level upon which to do basic research.

502 ADVANCED PRINCIPLES OF EDUCATION Three hours
A course designed to acquaint the student with the broad principles governing American life and their relationship to the schools; teaching for democracy; responsibilities of the teacher and administrator; human problems and the teacher. Adaptation of the schools to these basic problems. For teachers and administrators.

521 ORGANIZATION AND ADMINISTRATION OF SECONDARY SCHOOLS Three hours
This course is designed especially for the training of administrators in the secondary and junior high school fields. It deals with the general qualifications of the successful administrator; his relationships to the board of education, the faculty and student; the principal and the community; special problems in the organization and administration of high schools; schedule making; and pupil personnel activities.

522 ORGANIZATION AND ADMINISTRATION OF ELEMENTARY SCHOOLS Three hours
A comprehensive treatment of the problems associated with the organization and administration of the elementary schools. Curricular evaluation will constitute a portion of this study in keeping with the developmental approach to the psychology of personality of the school child.

523 CLASSROOM SUPERVISION Three hours
The improvement of instruction through supervision in the first twelve grades.

524 THE SCHOOL AND COMMUNITY RELATIONS Three hours
A course designed to help those who are interested in the total educational program of the community. Emphasis is placed on the development of a school-community program based on local needs.

531 ADVANCED EDUCATIONAL PSYCHOLOGY Three hours
A systematic survey of the field of educational psychology for information and principles of practical value to teachers and administrators in the total public school program. The development of personality through counseling and guidance will be discussed.

532 SPECIAL PROBLEMS IN THE DEVELOPMENT OF CURRICULAR MATERIALS Three hours
This course is conducted on the workshop basis. Students engage in the actual development of curriculum materials in the field of their choice.

536 STUDENT ACTIVITY PROGRAMS Three hours
An analysis of the whole area of activity programs with regard to purposes, types of programs, specific activities, and the function and evaluation of such programs.

538 CURRENT EDUCATIONAL THOUGHT Three hours
An examination of major issues confronting contemporary education in the United States and of critical thought bearing on those issues.

539 PRINCIPLES OF ADULT EDUCATION Three hours
Consideration is given to major social factors leading to the growth and development of adult education. A study is made of types, techniques of teaching, the training of teachers and leaders, and research which furnish the basis for developments in adult education.

550 SUPERVISED CHILD GUIDANCE EXPERIENCE 6 hours each semester

560 PUBLIC SCHOOL FINANCE Three hours
The methods used in the past and present for financing the schools. Coordination and practices of the state, city, and local boards in providing funds; the annual budget and its control; the principal of prudence in the administration of funds; management of funds; statements and reports; salaries; cost analyses; auditing; and other means of control are studied. The methods, advantages, and administration of school bonds, and the philosophy of state and Federal support are given attention. For all administrators.
561 TESTS AND MEASUREMENTS  Two hours
This study gives itself to analysis of individual and group psychological tests and their application to progress in the pupil. Time will be given to problems in making of classroom tests in classroom subjects.

573 TRENDS IN CURRICULUM BUILDING  Three hours summer
A study of the problems in curriculum development and of promising practices in curriculum work. Given on demand.

580 SEMINAR IN HISTORY AND PHILOSOPHY OF EDUCATION  Three hours
A seminar study in great movements in education considered in chronological order and with reference to evaluation of strengths and weaknesses. Individual and group projects.

581 STUDIES IN ELEMENTARY SCHOOL PROBLEMS  Two hours
A broad, general study of problems in elementary education. Teachers and students choose problems which are typical in a classroom and work them out in a seminar.

586 READINGS IN EDUCATION  Three hours
A graduate reading course in educational materials and basic studies in major areas of educational curricula.

590, 591 RESEARCH SEMINAR  Two-four hours each semester
A supervised study into major problems in education. The student follows research methods similar to his individualized investigation. Subjects pertinent to either the elementary, junior high, or senior high school may be elected.

594, 595 THESIS  Three hours each semester
Methodology of Research and Thesis writing.

GRADUATE WORK IN CHRISTIAN EDUCATION
The Master of Arts Degree in Education will be awarded to graduate students in the field of Christian Education who have completed areas of study and research as listed below. A close affinity is noted between the Master of Arts Degree as applied to the public school field and the Master of Arts Degree as applied to Christian Education in the church. Requests for changes in the program leading to the Master of Arts Degree must be made to the Graduate Council.
Methodology of Research
Advanced Educational Psychology
Curricular Problems
Advanced Techniques of Counseling
History and Philosophy of Christian Education
Supervision of Christian Education
Practicum (on Administrative level) and Seminar
Thesis
Electives (Approved by Department Head)

HEALTH, PHYSICAL EDUCATION AND RECREATION
Mr. Cutter, Mr. Merkel, Mr. Adams, Miss Marks, Miss Mikesell, Mr. Cole

The physical education department, by means of activity courses, intramural sports, intercollegiate athletics, and informal recreational opportunities seeks to provide the individual student with experiences which will contribute to his physical, social, mental and emotional development. Through theory and activity courses the department provides a program of preparation for careers in physical education, athletic coaching and recreational leadership.

MAJOR AND MINOR REQUIREMENTS
Major study requirements for the Department of Health, Physical Education and Recreation are 30 hours for majors and 18 hours for minors in addition to the 4 hour activity requirement for graduation.
Men majors are required to take 2 hours of elective activity, 135 A,B,C,D,E,F, 150, 170, 300, 310, 320, 371, 372, 373, 374, 380 and 6 hours of approved electives. Other requirements are Biology 220 and 221. Recommended courses are: Education 413 and Home Economics 361.
Men minors are required to take 2 hours of elective activity. 135 A,B,C,D,E,F, 150, 170, 310 and 10 hours of approved electives. Recommended courses are: Biology 220 and 221 and Education 413.
Women majors are required to take 118, 130, A,B,C,D,E,F, 150, 170, 300, 310, 320, 340, 350, 351 and 9 hours of approved electives. Other requirements are Biology 220 and 221. Recommended courses are: Education 413 and Home Economics 361.
Women minors are required to take 118, 130, A,B,C,D,E,F, 150, 170, 310, 350, 351 and 5 hours of approved electives. Recommended courses are: Biology 220 and 221 and Education 413.
Aquatics is required for majors and minors lacking swimming proficiency.

RECREATIONAL LEADERSHIP
Requirements for a minor are Physical Education 150, Recreation 315 and 355, plus 8 hours of approved electives and 4 hours of physical education activity in addition to the 4 hour activity requirement for graduation.

PHYSICAL EDUCATION ACTIVITY COURSES
101 VARSITY BASEBALL (MEN)  1 hour second semester
102 VARSITY BASKETBALL (MEN AND WOMEN)  1 hour each semester
103 VARSITY FOOTBALL (MEN)  1 hour first semester
104 VARSITY GOLF (MEN)  1 hour second semester
105 VARSITY TENNIS (MEN AND WOMEN)  1 hour second semester
106 VARSITY TRACK & FIELD (MEN)  1 hour second semester
111 A,B,C,D—AQUATICS (BEGINNING, INTERMEDIATE, ADVANCED, LIFE SAVING) MEN AND WOMEN  1 hour each semester
112 ARCHERY AND GOLF (MEN AND WOMEN—COED)  1 hour each semester
113 BASKETBALL AND SOFTBALL (WOMEN)  
- 1 hour second semester

114 BODY MECHANICS (WOMEN)  
1 hour each semester  
Fundamental skills used in everyday living, including posture, movement and relaxation techniques.

115 BOWLING (COED) Special Fee  
1 hour each semester

116 CREATIVE RHYTHMS (WOMEN)  
1 hour second semester  
A study of techniques of rhythmic movement in time, space, focus, range and pattern. Development of personal ability to create through bodily movement.

117 FIELD SPORTS AND VOLLEYBALL (WOMEN)  
1 hour first semester

118 FOLK GAMES (COED)  
1 hour first semester

119 RECREATIONAL SPORTS (MEN AND WOMEN)  
1 hour second semester  
Aerial Darts, Croquet, Deck Tennis, Horseshoes, Paddle Tennis, Shuffleboard, Table Tennis and other recreational games.

120 A,B — SKIING (BEGINNING, INTERMEDIATE, COED)  
Special Fee  
1 hour each semester

121 A,B—TEAM SPORTS (MEN)  
1 hour each semester

122 A,B — TENNIS AND BADMINTON (MEN AND WOMEN)  
1 hour each semester

123 TUMBLING AND APPARATUS (MEN AND WOMEN)  
1 hour each semester

124 WEIGHT TRAINING (MEN)  
1 hour each semester

125 TRAMPOLINE (MEN AND WOMEN)  
1 hour each semester

126 BODY CONDITIONING (MEN AND WOMEN)  
1 hour each semester

130 A,B,C,D,E,F—SKILL FUNDAMENTALS (WOMEN—MAJORS AND MINORS)  
1 hour each semester  
Basic and advanced skills of physical education and rhythmic activities.

135 A,B,C,D—GAMES AND MINOR SPORTS (MEN—MAJORS AND MINORS)  
1 hour each semester  
Basic skills, knowledges and strategies of games and sports used in school physical education programs.

THEORY COURSES

150 INTRODUCTION TO HEALTH, PHYSICAL EDUCATION AND RECREATION  
1 hour first semester  
Professional orientation to physical education including basic philosophy, objectives, professional opportunities and qualifications.

160 PERSONAL HEALTH  
1 hour each semester  
A survey course covering problems of personal and community health.

170 FIRST AID  
2 hours second semester  
Study of first aid and safety procedures. Standard and advanced American Red Cross certificates are awarded to those who qualify.

300 HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION  
3 hours first semester  
A historical survey of physical education from ancient to modern times with emphasis on the basic principles of modern physical education and their relationship to present day programs.

310 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION  
3 hours second semester  
Administrative policies concerned with program, facilities, equipment and public relations in physical education.

320 KINESIOLOGY  
3 hours first semester  
Analysis of joint and muscular action in relation to movement; application of the basic principles of mechanics to efficiency of performance in physical education activities. Prerequisite: Biology 120.

325 PHYSIOLOGY OF EXERCISE  
2 hours first semester  
Physiological effects of muscular exercise on the body. Training and its relation to endurance, strength and athletic performance. Prerequisite: Biology 121. (Offered 1962-63 and alternate years.)

340 SPORTS OFFICIATING FOR WOMEN  
2 hours  
Rules, techniques and practice in officiating various sports for girls and women. One lecture and two laboratories.

341 SPORTS OFFICIATING FOR MEN  
2 hours  
One lecture and two laboratories. Rules, techniques and practical experience in sports officiating.

345 METHODS OF TEACHING ELEMENTARY PHYSICAL EDUCATION  
2 hours second semester  
Methods and materials for teaching group games, relays, stunts, and lead-up games for elementary schools with experience in presenting these activities.

350 METHODS OF TEACHING TEAM SPORTS FOR WOMEN  
2 hours first semester  
A study of the methods and materials used in teaching basketball, hockey, soccer, softball, speedball, and volleyball in the secondary schools. (Offered 1962-63 and alternate years.)
351 METHODS OF TEACHING INDIVIDUAL AND DUAL SPORTS FOR WOMEN
2 hours second semester
A study of the methods and materials used in teaching individuals and dual sports. (Offered Fall 1961 and Spring 1963.)

360 METHODS IN HEALTH EDUCATION
2 hours second semester
Methods and materials used in conducting an integrated program of health in the public schools. (Offered 1961-62 and alternate years.)

371 THEORY AND PRACTICE OF BASEBALL (MEN)
2 hours second semester
Fundamentals of baseball, theory and practice. (Offered 1961-62 and alternate years.)

372 THEORY AND PRACTICE OF BASKETBALL (MEN)
2 hours first semester
Fundamentals of basketball, theory and practice. (Offered 1961-62 and alternate years.)

373 THEORY AND PRACTICE OF FOOTBALL (MEN)
2 hours first semester
Fundamentals of football, theory and practice. (Offered 1962-63 and alternate years.)

374 THEORY AND PRACTICE OF TRACK (MEN)
2 hours second semester
Fundamentals of track and field, theory and practice. (Offered 1962-63 and alternate years.)

380 ATHLETIC TRAINING (MEN)
2 hours first semester
A study of the types and causes of injuries incurred while participating in athletic sports; prevention and care.

400 TESTS AND MEASUREMENTS
3 hours second semester
Application of measurement to physical education: selection, administration and interpretation of knowledge and performance tests. (Offered 1962-63 and alternate years.)

415 ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS (MEN)
2 hours
Policies and procedures used in conducting intramural programs in schools and colleges.

490, 491 SEMINAR
2 hours each semester
Introduction to research techniques in physical education: individual investigation by the student. Open to seniors or honor students only.

RECREATION COURSES

315 COMMUNITY RECREATION
2 hours first semester
A survey of the recreation programs of private, semi-private and public agencies within the community. (Offered 1962-63 and alternate years.)

355 RECREATION LEADERSHIP
3 hours second semester
Methods and practice in selecting and conducting programs of recreation for all age groups in church, school and community settings. (Offered 1961-62 and alternate years.)

356 CAMP LEADERSHIP
3 hours second semester
Practical and theoretical aspects of leadership in a camp situation with relation to counseling and directing of camp programs.

418 ORGANIZATION AND ADMINISTRATION OF RECREATION
2 hours first semester
Organization and administration of public and private programs of recreation; finance, activities, personnel, records and reports. (Offered 1962-63 and alternate years.)

425 RECREATION FIELD WORK
1-3 hours each semester
Supervised fieldwork in camps, churches, playgrounds, recreation centers and other social agencies.
College Personnel

THE BOARD OF TRUSTEES

The Trustees constitute the governing board of the College. The Board is authorized by its charter to hold all properties and to exercise all corporate controls concerning affairs of the college. It has the authority to determine policies and delegate the execution of such policies to the administration and faculty.

Officers of the Board

Albert Arend, Chairman.......................... Spokane
Haydn Morgan, Vice Chairman................. Spokane
Werner Rosenquist, Secretary......... Spokane
Ernest E. Baldwin, Treasurer............ Spokane

Emeritus Members

Charles F. Koehler, D.D.......................... Spokane
William L. McEachran............................ Spokane
Otto R. Rabel.................................. Seattle

Class of 1961

Albert Arend.................................. Spokane
Ernest E. Baldwin.................................. Spokane
L. David Cowie, D.D................................. Seattle
Mrs. Grant Dixon.................................. Spokane
Roy Howes, D.D.................................. Albuquerque, New Mexico
Keith Murray, Ph.D.................................. Bellingham
Kenneth G. Myers................................ Seattle
Fred W. Neale.................................. Seattle
Sam A. Postell.................................. Spokane
John W. Oosterhoff................................. Mount Vernon

Class of 1962

Carl L. Bopp................................. Santa Cruz, California
Raymond W. Burch............................. Coeur d'Alene, Idaho
W. H. Gowles.................................. Spokane
F. L. Graybill.................................. Spokane
Herbert Hamblen.................................. Spokane
David L. Jones................................ Seattle
Mark L. Koehler, D.D............................ Yakima
Miss Mildred Lemon................................ Olympia
Lawrence J. Mitchell, D.D........................ Pullman
Arthur E. Symons................................ Seattle
C. Davis Weyerhaeuser........................... Tacoma

Class of 1963

Mrs. Robert Hardy................................ Yakima
Carroll M. Hull.................................. Yakima
Donald Major.................................. Spokane
Haydn Morgan.................................. Spokane
Sheldon O. Price, D.D........................... Wenatchee
William Richter, M.D.......................... Spokane
Werner Rosenquist............................ Spokane
Garth A. Strele, D.D............................. Seattle
Thomas L. Thompson............................. Connell
Ingwer Thomsen................................ Marlin
Ralph G. Turnbull, D.D.......................... Seattle

OFFICES OF ADMINISTRATION

The Office of the President

President........................................ Dr. Frank F. Warren
Secretary to the President.................. Mrs. W. R. Holberg

The Office of the Director of Development

Director of Development.................... Mr. Edward V. Wright
Assistant to the Director of Development.. Mr. Paul Wikstrom

The Office of the Dean of the College

Dean of the College..................... Dr. Alvin B. Quall
Secretary to the Dean........................ Miss Lucretia Beavers

The Office of Deans of Students

Dean of Women............................... Miss Marion R. Jenkins
Dean of Men................................ Dr. Jasper Johnson
Secretary to Deans of Students........... Mrs. Earl Jensen

The Office of the Registrar

Registrar.............................. Miss Estella Baldwin
Assistant Registrar...................... Miss Margaret Wilson
Secretary to the Registrar.............. Mrs. Mark Lee
Transcript Clerk.......................... Mrs. Robert A. Sprague

The Business Office

Business Manager............................ Mr. J. Paul Snyder
Bursar.................................... Mr. Dayne Nix
Veteran's Coordinator..................... Mrs. Don Johnson
Secretary to the Business Manager...... Mrs. Jean Nichols
Bookkeeper.................................. Miss Wilma-Ruth Fleming
Clerk....................................... Mrs. Rosa Cardwell

The Office of Admissions

Director of Admissions.................... Mr. Helmut Bekowies
Secretary.................................. Mrs. Bruce Harstad

The Office of Public Relations

Director.................................. Mr. Milton Erway
Secretary.................................. Mrs. Ed Neltner

Library

Head Librarian............................. Miss Flaval Pearson
Catalog Librarian........................ Mrs. Claude R. French
Acquisitions Librarian.................. Mrs. Harold Nordeen

The Alumni Office

Executive Secretary..................... Mr. Roy Dimond

Food Services

Dining Hall Dietician..................... Mrs. Jeanne Green
Dining Room Hostess...................... Mrs. Ruth Quigley
Director of HUB Commons............... Mrs. John Edwards

The Book Store

Manager................................. Mrs. Leonard B. Martin
Assistant to the Manager.............. Mrs. Margaret Walline

Health Service

Director................................. Mrs. Margaret W. Robertson
Head Nurse............................... Mrs. Edward C. Lageson
College Physician..................... Dr. James Sledge
THE FACULTY

The faculty consists of certain officers of instruction. Teachers are classified as follows: Professors, Associate Professors, Assistant Professors and Instructors. The faculty are charged with the responsibilities for the academic program, the extra class activities sponsored by the college, and the welfare of its students.

FRANK FURNISS WARREN, M.A., D.D., LL.D., Litt.D.
President
B.A., Seattle Pacific College; M.A., Drew University; D.D., Seattle Pacific College; LL.D., Whitworth College; Litt.D., Pacific Lutheran College.
Whitworth College, 1940—

SAMUEL H. ADAMS, M.Ed.
Assistant Professor of Physical Education; Head Coach, Football and Track
B.S., M.Ed., Whitworth College.
Whitworth College, 1957—

HOMER E. ALDER, Ph.D.
Professor of Biology
B.S., Fremont Normal College; B.A., Nebraska Wesleyan University; M.A. and Ph.D., University of Nebraska.
Whitworth College, 1946—

ESTELLA E. BALDWIN, M.A.
Professor of Bible, Registrar
B.A., M.A., Whitworth College; Bible Institute of Los Angeles; Graduate study, New York Biblical Seminary, and University of Boston.
Whitworth College, 1931—

LESLIE R. BEACH, Ph.D.
Associate Professor of Psychology, Director of Institutional Research
B.A., Houghton College; M.Ed., Wayne University; Ph.D., University of Michigan.
Whitworth College, 1957—

HELMUTH BEKOWIES, B.A.
Director of Admissions
B.A., Whitworth College.
Whitworth College, 1948—

THOMAS W. BIBB, Ph.D.
Professor of Economics and Business Administration
B.A., William Jewell College; M.A., Ph.D., University of Washington.
Whitworth College, 1946—

ROBERT D. BOCKSCH, Ph.D.
Assistant Professor of Chemistry
B.S., Wayne University; Ph.D., University of Wisconsin.
Whitworth College, 1958—

MARY BOPPELL, M.A.
Associate Professor of Home Economics
B.S., M.A., University of Washington.
Whitworth College, 1941—

DAVID C. BROOKS, M.S.
Instructor in Mathematics
B.S., Seattle Pacific College; M.S., University of Washington.
Whitworth College, 1960—

JAMES C. CARLEVEN, M.A.*
Assistant Professor of Music

JOHN ARVID CARLSON, M.S.
Professor of Mathematics and Engineering
B.S., M.S., University of Washington; Graduate study, University of Washington.
Whitworth College, 1935—

ANNA JANE CARREL, M.M., A.A.G.O.
Professor of Music
Mus.B., Oberlin Conservatory of Music; Mus.M., Cincinnati Conservatory of Music; student of Ernest Hutcherson and Sigismund Stajowski in New York City; B.A., Whitworth College; Graduate study towards Ph.D., Yale University, and Graduate study at Eastman School of Music.
Whitworth College, 1937—

RONALD E. CHINN, Ph.D.
Assistant Professor in Political Science
A.B., M.A., Stanford University; Ph.D, University of California.
Whitworth College, 1960—

WILLIAM L. COLE, B.A.
Instructor in Physical Education; Assistant Coach in Football and Basketball
B.A., Whitworth College.
Whitworth College, 1960—

DOROTHY F. CORONA, R.N., M.N.
Lecturer
B.S., Whitworth College; M.N., Western Reserve University.
Whitworth College and Deaconess Hospital, 1954—

HOMER F. CUNNINGHAM, Ph.D.
Professor of History
B.A., Greenville College; M.A., University of Michigan; Ph.D., New York University.
Whitworth College, 1955—

A. ROSS CUTTER, M.A.
Assistant Professor of Physical Education
B.A., University of California; M.A., College of the Pacific;
Whitworth College, 1958—

SAMUEL E. DAVIS, M.M.
Assistant Professor in Music
B.M.E., Montana State University; M.M., Manhattan School of Music.
Whitworth College, 1960—

DAVID E. DILWORTH, Ph.D.
Associate Professor of Religion
B.A., University of California at Los Angeles; B.D., Princeton Theological Seminary; Th.D., San Francisco Theological Seminary.
Whitworth College, 1955—

HARRY DIXON, Ph.D.
Associate Professor of Economics and Business
B.S., University of Illinois; Ph.D., University of Illinois.
Whitworth College, 1960—

*On Leave
FRANCINE DONNER, A.M.
Assistant Professor of English
A.B., University of Washington; A.M., University of Southern California.
Whitworth College, 1958—

ELLA ERWAY, M.A.
Assistant Professor of Speech
Whitworth College, 1958—

ERNESTINE EVANS, M.A.
Associate Professor of Secretarial Science
Whitworth College, 1941—

JACQUELINE FICK, M.S.
Assistant Professor of Biology
A.B., Holy Names College; M.S. Marquette University.
Whitworth College, 1958—

RHEA J. FRENCH, B.A.
Catalog Librarian
B.A., Montana State University.
Whitworth College, 1943—

ALFRED ORREN GRAY, M.A.
Professor of Advertising and Journalism
B.A., M.A., University of Wisconsin; Graduate study, University of Wisconsin.
Whitworth College, 1946—

NICOLIN P. GRAY, M.S.
Assistant Professor of Biology
B.S., M.S., University of Washington; Graduate study, University of Washington.
Whitworth College, 1944-1949, 1956—

HUGH W. JOHNSTON, Ph.D.
Associate Professor of Chemistry
B.S., Montana State College; M.S., University of Illinois.
Whitworth College, 1957—

RONALD D. JONES, Ph.D.
Associate Professor of Education
B.S., Th.B., Marion College; M.S., Ph.D., University of Wisconsin.
Whitworth College, 1960—

RICHARD B. KAMM, B.A.
Instructor in History, Head Basketball Coach
B.A., Wheaton College
Whitworth College, 1960—

JOHN A. LACOSTE, Ed.D.
Professor of Education, Director of Graduate Studies, Director of Evening Division
B.A., Coe College; M.A., University of Iowa, Ed.D., University of Washington.
Whitworth College, 1954—

J. RUSSELL LARSON, M.Ed.
Associate Professor of Art
B.A., B.S., University of Washington; B.Ed., M.Ed., Whitworth College; Graduate study, Instituto Allende, Gto, Mexico.
Whitworth College, 1947—

MARK W. LEE, M.A.
Associate Professor of Speech and Drama
Whitworth College, 1957—

PATRICIA A. MACDONALD, Ph.D.
Associate Professor of Psychology
B.A., University of Washington; M.A., Ph.D., University of Rochester.
Whitworth College, 1955—

DIANA C. MARKS, M.Ed.
Assistant Professor in Physical Education
B.A., Wheaton College; M.Ed., Whitworth College.
Whitworth College, 1956—

LEONARD B. MARTIN, M.Mus.
Associate Professor of Music
Westminster Choir College; B.Mus., M.Mus., University of Southern California; Pupil of Arthur Alexander.
Whitworth College, 1949—

PAUL J. MERKEL, M.Ed.
Assistant Professor of Physical Education, Director of Athletics, Head Baseball Coach
Whitworth College, 1954—

DENIS J. MIKES, B.A.
Instructor in Women's Physical Education
B.A., Eastern Washington College of Education.
Whitworth College, 1959—

MARJORIE S. NORDEEN, B.LS.
Acquisitions Librarian
B.A., University of Washington; B.L.S., University of Illinois.
Whitworth College, 1960—

*On Leave
EDWIN A. OLSON, Ph.D.
Assistant Professor of Geology
B.S., M.S., University of Pittsburgh; Ph.D., Columbia University.
Whitworth College, 1960—

FLAVAL PEARSON, B.A.
Head Librarian
B.A., B.A. Librarianship, University of Washington.
Whitworth College, 1958—

ALICE QUALL, M.Ed.
Instructor in Typing
B.A., Seattle Pacific College; M.Ed. Whitworth College.
Whitworth College, 1953—

ALVIN QUALL, Ed.D.
Dean of the College, Professor of Education and Psychology
B.A., Seattle Pacific College; M.A., University of Washington; Ed.D., Washington University.
Whitworth College, 1957—

HOWARD A. REDMOND, Ph.D.
Associate Professor of Religion and Philosophy
B.A., University of California at Los Angeles; B.D., Princeton Theological Seminary; M.A., Ph.D., University of Southern California.
Whitworth College, 1957—

KENNETH E. RICHARDSON, M.A.
Assistant Professor of English
B.A., Westmont College; M.A., Claremont Graduate School; Graduate Study, University of California at Los Angeles and Claremont Graduate School.
Whitworth College, 1959—

MARGARET W. ROBERTSON, R.N., M.A., M.P.H.
Associate Professor of Nursing, Director of Infirmary
B.A., Occidental College; M.A., Columbia University; M.P.H., University of Minnesota.
Whitworth College, 1957—

GUSTAV HERMAN SCHLAUCH, Ph.D.
Professor of Sociology
B.A. Spokane University; M.A., Ph.D., University of Washington;
Whitworth College, 1942—

RONALD SHORT, B.A.
Instructor in Psychology
B.A., Whitworth College.
Whitworth College, 1960—

CLARENCE J. SIMPSON, Ph.D.
Professor of English
A.B., Asbury College; M.A., University of Cincinnati; Ph.D., Stanford University.
Whitworth College, 1953—

EVELYN A. SMITH, M.R.E.
Associate Professor of Bible and Christian Education
B.A., University of California; M.R.E., The Biblical Seminary in New York; Graduate work, University of California, Whitworth College.
Whitworth College, 1944-45, 1948—

J. PAUL SNYDER, M.A.
Business Manager
B.A., College of Puget Sound; M.A., University of Washington.
Whitworth College, 1951—

ROBERT A. SPRAGUE, M.C.S.
Associate Professor of Advertising
B.C.S., New York University; M.C.S., New York University.
Whitworth College, 1956—

LULU M. SWOPE, R.N., M.N.
Lecturer
B.S., Whitworth College; M.N., University of Washington.
Whitworth College and Deaconess Hospital, 1957—

THOMAS T. TAVENER, M.A.
Instructor in Music
B.A., University of Washington; M.A., University of Washington.
Whitworth College, 1959—

ESTELLA N. TIFFANY, M.A.
Associate Professor of English
Whitworth College, 1949—

HAMPTON H. TRAYNER, M.D., M.P.H.
Medical Lecturer
M.D., School of Medicine, University of Chicago.
M.P.H., Harvard University.
Whitworth College Evening School, 1959—

JAMES R. WADSWORTH, Ph.D.
Professor of Modern Languages
A.B., M.A., Ph.D., Cornell University, Graduate study, University of Paris, University of Strasbourg.
Whitworth College, 1960—

LLOYD BENSON WALTZ, M.A.
Professor of Speech and Dramatics
B.A., Willamette University; M.A., University of Southern California.
Whitworth College, 1944—

MAE WHITTEN, M.A.
Associate Professor of English
B.A., Stanford University; M.A., Whitworth College; Graduate study at Stanford University, University of California, and University of Oregon.
Whitworth College, 1945—

WILLIAM G. WILSON, M.S.
Associate Professor of Physics and Engineering
B.S., M.S., University of Washington; Graduate study, University of California, University of Washington, Eastern Washington College of Education; work towards Ph.D., Washington State College.
Whitworth College, 1946—

MARGARET L. WILSON, M.A.
Associate Professor of Greek and Philosophy
B.A., McGill University; M.A., University of Toronto; B.D., Presbyterian College, Montreal, Canada. Graduate study, University of Saskatchewan. Residence work complete towards Th.D., Princeton Theological Seminary.
Whitworth College, 1948—
Physical Plant

The main buildings of the campus consist of: Cowles Memorial Auditorium, Dixon Hall, McEachran Hall, Hardwick Student Union Building, Harriet Cheney Cowles Memorial Library, Science Hall, Music Building, Grieve Hall, Graves Gymnasium, Home Economics Building, Dining Hall, the Edinger Memorial Chapel, Arend Hall, Westminster Hall, Washington Hall, Nason Hall, Ballard Hall, McMillan Hall, Maranatha Hall, Warren Hall, and the Central Heating Plant.

McEachran Hall was built in 1953. The first floor houses the administrative offices. The second floor houses certain educational facilities including classrooms, faculty offices, and a duplicating department.

Dixon Hall was completed in 1956. It was named after Grant Dixon, a former Board member and benefactor of the College. This building contains 18 classrooms which are used by the various divisions of the College and also includes individual offices for nine faculty members. The building is of brick and completely fireproof.

The Cowles Memorial Auditorium, which was completed in 1956, was a gift from the Cowles family. It is a brick structure with study quarters which accommodate the needs of the entire student body and the housing of 100,000 books. The lower floor houses the Art, Journalism, and Advertising Departments. Other rooms for classroom use and study carrels complete the facilities.

Housing: Seven dormitory buildings provide housing for the students. Ballard, McMillan, Warren, and Maranatha Halls provide housing for 394 women. Westminster, Nason, and Arend Halls provide housing for 287 men. On the east side of the campus married students and faculty members occupy twenty-two apartments known as College Homes. Other living quarters for faculty members and families are also provided.

Graves Gymnasium is the center of the athletic program of the campus. Adjacent to this building is a natural amphitheater which with its view of nearby hills provides a turfed athletic field of unique beauty. This field also contains a quarter mile track. Stannard Field is used for baseball and other field sports. The athletic facilities also include five cement and asphalt tennis courts.

The Music Building consists of two levels. The first floor has two large classrooms and a number of practice rooms. The second floor contains the recital room, a central music office, and studios for the individual members of the department.

The Home Economics Building contains a large foods laboratory and storage room. A modern, all electric kitchen is located on the first floor. In addition, the Home Management Cottage makes it possible for students to gain practical experience.

The Science Hall houses the departments of biology, chemistry and physics. It is a brick structure with two floors, making space for a lecture room, laboratories, store rooms, and offices for these science departments.

The Dining Hall is a solid brick structure. It will accommodate 500 students at one time through the use of its upper and lower dining rooms. Meals are served family style evenings and cafeteria style mornings and at noon.

Grieve Hall houses the Health Center. It contains the nursing office, the dispensary, and both single rooms and wards for the care of students during illness. A home economics classroom is also in this building.

The Edinger Memorial Chapel was erected by the Philadelphians. It accommodates forty students and is used for small religious group meetings and for private devotions.
### SUMMARY OF ENROLLMENT
**FIRST AND SECOND SEMESTERS, 1958-1959**

<table>
<thead>
<tr>
<th></th>
<th>MEN</th>
<th>WOMEN</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seniors</td>
<td>91</td>
<td>89</td>
<td>180</td>
</tr>
<tr>
<td>Juniors</td>
<td>105</td>
<td>84</td>
<td>189</td>
</tr>
<tr>
<td>Sophomores</td>
<td>147</td>
<td>129</td>
<td>276</td>
</tr>
<tr>
<td>Freshmen</td>
<td>230</td>
<td>278</td>
<td>508</td>
</tr>
<tr>
<td>Graduate, Post-graduate and Special Students</td>
<td>172</td>
<td>238</td>
<td>410</td>
</tr>
</tbody>
</table>

**TOTAL**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>745</td>
<td>818</td>
<td>1563</td>
</tr>
</tbody>
</table>

### GEOGRAPHICAL DISTRIBUTION OF ENROLLMENT

**Registration by States and U.S. Territories**

**FIRST AND SECOND SEMESTERS, 1958-1959**

<table>
<thead>
<tr>
<th>State</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska</td>
<td>6</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Arizona</td>
<td>3</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>California</td>
<td>122</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Colorado</td>
<td>15</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Connecticut</td>
<td>2</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Delaware</td>
<td>1</td>
<td></td>
<td>46</td>
</tr>
<tr>
<td>Florida</td>
<td>3</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Hawaii</td>
<td>42</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Idaho</td>
<td>5</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Illinois</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Kansas</td>
<td>1252</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maine</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Maryland</td>
<td>3</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Minnesota</td>
<td>5</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Missouri</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Foreign Countries**

<table>
<thead>
<tr>
<th>Country</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>10</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>China</td>
<td>3</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Greece</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Ireland</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1563</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SUMMARY OF ENROLLMENT
**FIRST AND SECOND SEMESTERS, 1959-1960**

<table>
<thead>
<tr>
<th></th>
<th>MEN</th>
<th>WOMEN</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seniors</td>
<td>105</td>
<td>116</td>
<td>221</td>
</tr>
<tr>
<td>Juniors</td>
<td>139</td>
<td>108</td>
<td>247</td>
</tr>
<tr>
<td>Sophomores</td>
<td>169</td>
<td>153</td>
<td>322</td>
</tr>
<tr>
<td>Freshmen</td>
<td>232</td>
<td>259</td>
<td>491</td>
</tr>
<tr>
<td>Graduate, Post-graduate and Special Students</td>
<td>196</td>
<td>230</td>
<td>426</td>
</tr>
</tbody>
</table>

**TOTAL**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>841</td>
<td>866</td>
<td>1707</td>
</tr>
</tbody>
</table>

### GEOGRAPHICAL DISTRIBUTION OF ENROLLMENT

**Registration by States and U.S. Territories**

**FIRST AND SECOND SEMESTERS, 1959-1960**

<table>
<thead>
<tr>
<th>State</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska</td>
<td>5</td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>Arizona</td>
<td>8</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>California</td>
<td>134</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Colorado</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connecticut</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delaware</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Florida</td>
<td>2</td>
<td></td>
<td>51</td>
</tr>
<tr>
<td>Hawaii</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Idaho</td>
<td>47</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Illinois</td>
<td>7</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Iowa</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kansas</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maryland</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minnesota</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Foreign Countries**

<table>
<thead>
<tr>
<th>Country</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Canada</td>
<td>7</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>China (Hong Kong)</td>
<td>2</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Colombia</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Ireland</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Japan</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1707</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

*WESTMINSTER HALL*

*GRAVES GYMNASIUM*
## Index

- Abences, 15
- Academic Regulations, 15-17
- Accreditation, 3
- Administration, 76
- Administrative Policies, 13-14
- Admission Policy, 5
- Advertising, 64
- Ancient and Modern Languages, 37-39
- Art, 28-29
- Associated Students, 9-12
- Bachelor of Education Degree, 25
- Biology, 44, 45
- Board of Trustees, 76
- Business and Communication Arts, 64
- Chemistry, 45-47
- Christian Education, 40-41
- Commencement, 19
- Course Numbering, 17
- Degrees and Requirements, 18-19
- Dentistry, 20
- Discipline, 13
- Divisions, 26
- Dormitory Requirements, 13
- Drama, 32-33
- Economics, 65
- Education, 70-73
- Eligibility Requirement, 15
- Engineering, 20-21, 47
- English, 36-37
- Enrollment Statistics, 81
- Examinations, 16
- Extension Credit, 18
- Faculty, 77-79
- Failures, 16
- Financial Information, 6-8
- Fine Arts Division, 28-33
- French, 38
- Geology, 48, 49
- German, 38
- Grades, 16
- Graduate Courses in Education, 72
- Graduate Degrees, 19-20
- Grants-In-Aid, 8
- Greek, 37
- Health Service, 13
- History, 3, 57, 58
- Home Economics, 49, 50
- Honors, 16
- Humanities, 36-41
- Journalism, 67, 68
- Law, 22
- Library Science, 39
- Loan Funds, 8
- Location, 4
- Majors and Minors, 19
- Master of Arts Degree, 19, 20
- Mathematics, 51, 52
- Medicine, 22
- Medical Technology, 22
- Ministry, 22
- Music, 29-31
- Nursing, 23, 52, 53
- Orientation, 17
- Part-time Work, 7
- Personal Property Regulations, 13
- Personnel and Guidance, 17
- Philosophy, 39
- Physical Education, 75, 75
- Physical Examination, 5
- Physical Plant, 80
- Physics, 54, 55
- Placement Service, 4
- Political Science, 58, 59
- Pre-Engineering, 20, 21
- Pre-Medical, 22
- Pre-Professional Studies, 20-24
- Pre-Social Welfare, 23
- Probation and Dismissal, 17
- Provisional Certificate, 24
- Psychology, 59, 60
- Publications, Student, 12
- Recreational Leadership, 73
- Refunds, 7
- Registration, 17
- Religion, 40, 41
- Religious Life, 11, 12
- Residence Requirements, 19
- Resources, 4
- Russian, 38
- Scholarships, 7, 8
- School of American Studies, 25
- Science, 44
- Secretarial Science, 67
- Self-Support, 7
- Social Life, 14
- Social Welfare, 23
- Sociology, 61, 62
- Spanish, 38, 39
- Speech and Drama, 32, 33
- Student Activities, 9-12
- Student Conduct, 14
- Teaching, 24, 25
- Transcripts, 7
- Transportation, 4
- Validating Credits, 16
- Veterans' Education, 7
- Withdrawal, 15
The CATALOGUE Edition
of the WHITWORTH COLLEGE
BULLETIN
Spokane, Washington