

TO ALL MEMBERS OF THE FACULTY:

Proceedings of the Faculty Senate  
February 5, 1951

ARIZONA COLLEGE ASSOCIATION, ELECTION OF COUNCIL MEMBERS TO: The Senate elected Drs. Francis Roy and Melvin Solve as Council Members of the Arizona College Association to represent the University of Arizona.

COMMITTEE ON STANDARDS OF PROBATION, FURTHER REPORT OF: Dr. Roy reported that his Committee wished to withdraw a previously-submitted recommendation concerning automatic disqualification for students who failed to meet the scholarship requirement for two successive semesters. The Senate voted approval of the withdrawal of this recommendation.

CLASSIFICATION OF STAFF MEMBERS, FURTHER DISCUSSION OF REPORT OF: In connection with the action of January 8 regarding catalog listing of faculty members, which deleted the names of many staff members from the catalog, the Senate voted to ask the Administration to publish a directory of faculty and staff immediately after the opening of the first semester each fall, which would be made available to all departments.

The Senate gave further consideration to the report of the Committee on Classification of Staff Members and voted to approve the following listing for academic processions:

There shall be five groups, as follows: Platform  
Professors  
Associate Professors  
Assistant Professors  
Instructors

Names shall be listed in order of seniority in each group\*.

The following individuals in Administration will be listed in the Academic Procession: President, Vice-President, Deans, Vice-Deans, Directors, Asst. and Associate Directors, Registrar, Asst. Registrar, Librarian, and Comptroller. Those not placed in the Platform group will be placed in the Professor group. The Comptroller will be placed in the Platform group.

All department heads without academic titles will be in the Professor group. (For example, Agricultural Experiment departmental heads.)

All Lecturers will be placed last in the Professor group.

All others without academic title according to the number of years of service. (For example, Extension Specialists, Asst. Librarian, and Library departmental heads.)

Research Assistants and those of lesser rank are not included in the academic procession.

Those without academic title will be placed in accordance with their years of service, as follows:

A master list of those without academic title will be kept in the President's office. Appointees' names will be placed on this list, with all those appointed in any one year being grouped together. After 5 years of tenure in each group, starting with the Instructor group, their names will be advanced to the next higher classification. (For example, those appointed in 1946 will be advanced from the Instructor group to the Assistant Professor group in 1951, those appointed in 1941 from the Assistant Professor to the Associate Professor group in 1951, and so forth.)

The Senate voted approval of the Committee's recommendation that voting members of the faculty should be comprised of those listed in the catalog under administration, teaching and research, and library staff\*.

See January proceedings for this list.

REPORT ON GRADE DISTRIBUTION, APPOINTMENT OF COMMITTEE TO CONSIDER: The Senate voted to ask the President to appoint a special committee to study the advisability of supplying to faculty members a complete key in connection with the recent report of the committee on Grade Distribution. It was suggested that the committee consist of five members, including Dr. D. L. Webb and Professor Alsie Schulman who were members of the original committee on Grade Distribution.

COMMITTEE ON FACULTY GRIEVANCES AND COMMITTEE ON COMMITTEES, RECONSIDERATION OF ACTION RE: The Senate voted to reconsider its action of January 8, at which time it voted to list in the catalog the Committee on Faculty Grievances and the Committee on Committees. The Senate voted that these two committees would not be listed in the general catalog but would be listed in the directory of faculty and staff to be published each fall.

David L. Windsor  
Secretary Pro Tem

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CATALOGUE MATERIAL AS ACTED ON BY THE ADVISORY COUNCIL:

College of Engineering - Course approved:

- C.E. 211 Rigid Frames - Structures (3) II Handforth  
A study of modern rigid framed buildings, culminating in the complete design of a reinforced concrete building of this type. Useful analytical tools and their application; the effect of various loading and foundation conditions on analysis and design, the source and application of various design concepts, the derivation, limitations, and use of various design tables and handbooks, and the final complete design of a building will be the topics of study.

The Council approved the following new courses for inclusion in the catalog:

College of Liberal Arts

- Anthropology 111 Museum Methods (2) I. 1951-52 Danson  
History, management problems, and methodology of museums. 1R, 3L.
- Anthropology 160a,b Tree-Ring Methods for Archaeologists (2-2) Yr. G. Smiley  
Mechanics of tree-ring dating; field techniques; interpretation of tree-ring dates. 1R, 3L. \$3 each semester.
- Chemistry 104 Theories of Inorganic Chemistry (3) II 1952-53 G Perkins  
Selected topics in inorganic chemistry, embodying a study of the structure and properties of inorganic substances. 3R, P., 4.
- Chemistry 108 Inorganic Preparations (3) II G 1951-52 Perkins  
A laboratory course designed to acquaint the student with fundamental preparations and reactions of inorganic chemistry. 1R, 6L. P., 4.  
Offered in 1951-52 and alternate years. Fee \$8.
- Chemistry 220 Advanced Analytical Chemistry (3) II Perkins  
A theoretical study of the physical properties which are used in analysis and of the methods which utilize these properties. 3R. P, 106b.
- Chemistry 288 The Phase Rule (3) I 1951-52 Taylor  
Heterogeneous equilibria and phase diagrams. Offered in 1951-52 and alternate years. 3R. P, 184b.
- Chemistry 284 Chemical Kinetics (3) II 1951-52 Sherwood  
Study of reaction rates and catalysis. Offered in 1951-52 and alternate years. 3R. P, 184b.
- Chemistry 252a-b Organic Reactions (3-3) Yr. Lapin  
Relationship of structure to chemical reactivity in organic molecules. Mechanisms of organic reactions. 3R. P, 140b. Open to seniors.
- Chemistry 250 The Chemical Bond (3) I Seeley  
An introduction to modern structural chemistry; the nature of the chemical bond and the structure of molecules and crystals presented on the basis of modern theory. P., 122, Math. 95b.
- Chemistry 296 Electrochemistry (3) I 1952-53 Taylor  
Theory of voltaic and electrolytic cells. The Debye-Huckel-Onsager theory of strong electrolytes. Offered 1952-53 and alternate. 3R. P., 205b.

- Classics 26a,b Mythology and Literature (3-3) Yr. Percy
- Classics 112a,b The Greek and Roman Epic (2-2) Yr. G. 1952-53 Percy
- Classics 15 The Study of English Words (3) II Berryhill  
Intended for students who wish to expand their English vocabulary. Derivations, especially from Greek and Latin; changes in the meanings of words; vocabulary building. Prerequisite, English 1a.
- French 109 Voltaire (2) I 1952-53 G Tremblay  
The life and times of Voltaire. Readings in French from representative works.
- French 110 Rousseau (2) 1952-53 G Tremblay  
The life and times of Rousseau. Readings in French from representative works. Offered in 1952-53 and alternate years.
- French 125a,b French Literature in Translation (2-2) Yr. G. 1951-52 Roy  
125a - Extensive readings in Rabelais, Montaigne, Racine, Moliere.  
125b - Rousseau, Balzac, Proust. Lectures and readings in English. P., Intro. to the Humanities. 125a is not prerequisite to 125b. Does not count towards fulfillment of language requirement.
- Math. 126 Theory of Numbers (3) I 1952-53 G Meyer  
Properties of integers. P., 95b.
- Math. 197 Foundations and Nature of Pure Mathematics (3) II G Purcell  
P., 95b
- Math. 204 Differential Geometry (3) I 1951-52 Meyer  
Applications of the calculus to the theory of space curves and surfaces. P., 95b.
- Physics 107 Optics Laboratory (1) II G 1951-52 Becker  
Experiments to accompany Physics 106. 3L. P., 106 or CR therein. Fee \$5.
- Physics 140 Acoustics (3) I 1952-53 G Corby  
Fundamental concepts of acoustics. Transmission of sound in solids, liquids, and gases. Theory of transducers and filters. 3R. P., 10b and Math. 95b.
- Physics 150 Advanced Laboratory (1) I,II G 1951-52 Warner  
Experiments in atomic and nuclear physics. May be repeated for credit. 3L. P., open only to seniors majoring in Physics and graduate students. 10b, Math. 95b. Fee \$5.
- Physics 151a,b Nuclear Physics (3-3) Yr. G. 1952-53  
Natural radio activity, protons, neutrons, deuterons, mesons, cosmic radiation, fission, applications of radio activity. 3R. P., 118a,b.
- Spanish 210a,b Old Spanish (2-2) Yr. Brooks  
History of Spanish, historic grammar, reading, paleography.
- Spanish 220a,b Comparative Romance Linguistics (2-2) Yr. Aubrey  
Evolution of major Romance languages; linguistic methods of research. Open to students who have a degree in Spanish, French, or Romance Languages.
- Psychology 152 Technique and Practice in Psychological Testing (3) II G 1951-52 Barnes  
Training and practice in the clinical administration and interpretation of psychological measurements. P., Psychology 150. Fee \$3.

- Philosophy 131 Metaphysics (3) I G 1951-52 Wallraff  
The nature and function of metaphysical speculation; survey and criticism of recurrent metaphysical systems. P., 6 upper division credits in Philosophy.
- Philosophy 132 Philosophies of Religion (3) I G 1952-53 Wallraff-Schneck  
Critical consideration of prevailing points of view in Occidental religious philosophy. P., 6 upper division credits in Philosophy.
- Psychology 114 Development of Human Behavior - Adolescence (3) II G Marquart  
The principal changes in human behavior from the beginnings of adolescence to maturity. Problems of social, vocational and family adjustment.
- Psychology 201 Clinical Psychology (3) II Barnes  
Theory and methods of personality appraisal and clinical diagnosis. P., Psychology 118 and Psychology 150.
- Psychology 202 Diagnostic Techniques in Psychology (3) II 1952-53 Barnes  
A study of clinical procedures in the diagnosis and treatment of behavior problems and personality disorders. P., Psychology 201 or CR therein.
- Math. 206 Point Set Topology (3) II 1951-52 Duncan  
Topological spaces, connectedness, local connectedness, compactness, separation axioms, metric spaces, product spaces, perfectly separable spaces. P., 95b.
- Math. 208 Tensor Analysis (3) II 1952-53 Payne  
Fundamental ideas and notation in tensor theory, differential forms, covariant differentiation, metric tensors, geodesics, Riemannian geometrics, and applications.
- Chemistry 292 Radiochemistry (2) II 1952-53 Sherwood  
Study of properties and applications of radioelements. Offered 1952-53 and alternate years. \$2. P., 184b.

CATALOGUE CHANGES: The Council approved the following catalogue changes.

College of Liberal Arts

- Page 188 Anthropology 295a-b, add "P, one year of graduate work in Anthropology."  
Anthropology 299 - after "P, 115a-115b," add "or 130a-130b."
- Page 186 Anthropology 20a-20b - change "World Ethnography" to read "Peoples of the World."  
Anthropology 30a-30b - insert "Old" before "World."
- Page 187 Anthropology 155a-155b - Change title "Cultures of Asia and Africa" to read "Cultures of Africa and Asia." Course description under 155b should read "Cultures of Asia."
- Page 188 Anthropology 203 - change in semester offering from I to II  
Anthropology 245a-b - At beginning of description add "Physiological bases and trends of evolution; detailed study of ... etc."  
Anthropology 250a-b - for course description substitute the following:  
"Distribution of American Indian languages; morphology; recording; and linguistic structure of an American Indian language."
- Page 186 20a-20b. After "P, 1a-1b" add "20a is not prerequisite to 20b."  
30a-30b. After "P, 1a-1b" add "30a is not prerequisite to 30b."

Page 187 109a-109b. After "P, 1a-1b" add "109a is not prerequisite to 109b."  
110a-110b. Add "110a is not prerequisite to 110b."  
114a-114b. After "P, 20a-20b or Art 7a-7b" add "114a is not prerequisite to 114b."  
130a-130b. After "P, 109a-109b" insert "130a is not prerequisite to 130b."  
135a-135b. After "P, 1a-1b or 6 units in art" add "135a is not prerequisite to 135b."  
144. In "P, 140a-140b" delete 140a.  
145a-145b. In "P, 140a-140b" delete 140a.  
155a-155b. After "P, 20a-20b" add "155a is not prerequisite to 155b."

Page 188 202. Under prerequisite delete "170a."  
203. Under prerequisite delete "170a."  
205a-205b. Add "205a is not prerequisite to 205b."  
222. Under prerequisite delete "170a."  
245a-245b. Under prerequisite delete "145a."  
299. Under prerequisite delete "115a."

Page 190 Astronomy. Change the description of the major to read: "24 units, including 1a-1b or 100a-100b; mathematics 95a-95b; physics 106."  
Astronomy 1a-1b (1) Increase fee to \$2.  
Astronomy 101. To be offered in 1951-52 and alternate years. Fee, \$2.  
Astronomy 10. To increase fee to \$2.

Page 192 Bacteriology 187. An Introduction to the Viruses. (2) II G. Change this offering from an alternate year course to a second semester course each year.

Chemistry: Upon recommendation by the Committee on Graduate Study, the Council approved the addition of a Master of Arts degree in Chemistry and a Ph.D. degree in Chemistry. The requirements for the Master of Arts in Chemistry are as follows:

#### Degree of Master of Arts with Chemistry Major

##### General Requirements

A major in chemistry. Not more than five credit hours from a closely allied field may be included with the approval of the head of the department.

A student may select a minor in a field or fields approved by the head of the department.

At least six hours of the work in chemistry must be chosen from courses numbered above 200; this is not to include the thesis.

A thesis, either library or experimental, will be required. No more than four hours of credit will be given for the thesis.

##### Examinations

The policy on examinations as set forth for the M.S. degree will apply with the following exceptions:

The preliminary organic examination will omit Chemistry 180 (150 new system). This will be replaced by additional questions on general organic chemistry.

The preliminary physical chemistry examination will cover the material included in Chemistry 102, (182 new system).

##### General Policy

If the minor is not in an allied scientific field, no more than ten hours credit shall be allowed in the minor.

If the major is divided between chemistry and a closely allied field, no more than two hours credit will be given for the thesis.

Page 198 Drop Chemistry 111, Advanced Inorganic Chemistry (3) I G

Page 199 Change the number of Chemistry 202a-202b to 240a-240b, and change the description to read as follows: "The structure and stereochemistry of the carbohydrates and polyuronides. Heterocyclic nitrogen compounds, including the alkaloids. The terpenes and camphors. P., 140b and senior standing. 240a is not prerequisite for 240b."

Change description of 299 to read:  
Chem. 299 Seminar (1) I,II Staff  
Reports on current research and assigned topics. Required of students registered for 300 or 310.

Change the numbering of courses as indicated below:

<u>Old Number</u>	<u>New Number</u>	<u>Title</u>
3	10	Qualitative Analysis
4	22	Introductory Quantitative Analysis
52	60	Elementary Physiological and Textile Chemistry
54	20	Elementary Quantitative Analysis
101	122	Intermediate Quantitative Analysis
102	182	Elementary Physical Chemistry
103a-103b	140a-140b	General Organic Chemistry
106a-106b	184a-184b	Physical Chemistry
107a-107b	185a-185b	Physical Chemistry Laboratory
109	124	Special and Instrumental Methods of Analysis
110	155	Semi-Micro Quantitative Organic Analysis
115	160	Biochemistry
116	161	Biochemistry Laboratory
120	188	Colloid Chemistry
180	150	Qualitative Organic Analysis
201	254	Physical Organic Chemistry
202a-202b	240a-240b	Advanced Organic Chemistry
203	246	Organic Preparations
205a-205b	280a-280b	Advanced Physical Chemistry. Change name to Chemical Thermodynamics

Page 199 Chemistry 203 Organic Preparations. Delete P., 180; add, P, 103b (140b).

Classics - PP. 202-203: General catalogue material - Change the teaching minor from "2a-2b, 3a-3b, 102a-102b" to "3a-3b, 102a-102b, and either 104a-104b or 186a-186b."

Lower-division course material. 2a-2b. Drop this course.

Upper-division course material. 126a-126b. Drop this course.

128a-128b. Reduce this course to (2-2).

102a-102b. Offer annually. Change course title to: Vergil and Horace

104a-104b. Change course title to: Latin Prose Authors

106a-106b. Change course title to: Latin Poetry.

110a-110b. Drop G and the words "and, for graduate credit, at least 2 years of an additional foreign language, preferably either Latin or German."

199. Drop this course.

300. Drop this course.

Page 218 French. 102a-102b. Change prerequisite to 3b instead of 101. Change number of hours per week from 3 to 2.

101a-101b - delete "conducted in French."

102a-102b, delete P, 101a-101b or CR therein. Change from annual to alternate year course. Change from 3 to 2 credits.

Page 219. 299. Seminar. Insert: "The topic for the seminar will be chosen from the following:  
Old French or 16th Century - - - - Gryting  
17th Century - - - - - Tremblay  
18th Century - - - - - Roy  
19th or 20th Century - - - - - Brown

Page 222. German. 2a-2b. Elementary Conversational Practice (2-2) Yr. Change present description to read as follows: "Designed to be taken concurrently with 1a-1b. Beginning students can thus obtain 5 units of German per semester."

100. German Literature to 1750 (2) 1952-53, insert "G" after "I"

Page 223 109, German Literature from Nietzsche to the Present (2) II 1952-53, insert "G" after "II"

Page 233 Mathematics. After the sentence: "All candidates for the master's degree will be required to demonstrate a reading knowledge of either German or French.", insert the sentence: "Credit for 198 is required for the master's degree."

Page 234 Mathematics 70. Insert "I" to indicate course will be offered every semester.  
Math. 81. Change prerequisite to read: "P, 24, or 70, or 20 and CR in 24, or 69b and CR in 24."  
Math. 91. Change from a 2 to a 3-unit course.

Page 248 Philosophy 11a-11b. Following description of course, insert "11a is offered both semesters."

Phil. 12a-12b, change description to read: "Principles of valid thinking; the nature of inference and its applications." Following description of course, insert, "12a is offered both semesters."

Page 249 Phil. 101a-101b. Change prerequisite to read: "6 units of Philosophy."  
Phil. 128. Change prerequisites to read: "6 units in Philosophy, other than 12a-12b."

Phil. 130. Change prerequisites to read: "6 units of upper division Phil."  
Delete Phil. 135a-135b.

Phil. 235. Delete 1949-50...Make annual. It is a continuation on a graduate level of Phil. 101a-101b.

Seminar. Change prerequisite as follows: Delete "or Psychology."

Under the major in Psychology, change the sentence beginning "Bus. Ad. 106a-106b" to read: Bus. Ad. 108a-108b, Education 140, 141, 142 may be included as part of the major.

Page 146 Under Liberal Arts list of courses; include under Education the following:  
Education 140, 141, 142, 154.

Physics - Page 257: After the supporting minor add the following: "The teaching minor consists of Physics 10a-10b and 118a-118b."

Change Physics 1a-1b to the following: Physics 10a-10b. Engineering Physics (5-5) Yr. Warner. 3 lectures, a 1-hour laboratory, 2 recitations. P., CR in Math. 95a-95b. Fee \$4 each semester.

Change Physics 11\* to 5\*. Elements of Physics (4) II Bents

Change Physics 17a-17b to 2a-2b. General Physics (4) Yr. Corby.

Same description but add: P, 1 entrance unit each in Algebra and Geometry.

Change Physics 40 to: 7. Meteorology (3) I. Crutchfield

Change Physics 106, 1950-51, to be given 1951-52 and change the prerequisite to: P, 2b or 10b and Math. 95b.



Page 258 Change Physics 120a-120b to: 120. Atomic, Molecular, and X-Ray Spectra  
(3) I G Yr. 1951-52 Blitzer. Same description. Change P. to "P, Phy. 106  
and Math. 95b.

Page 106 Physical Optics. (3) I. G. 1950-51 Change to: 106 Geometrical and  
Physical Optics (3) G 1951-52 II (Change of title and making alternate year.)

Spanish and Portuguese - Page 264 - Change 109a-109b to 115a-115b

Change 194a-194b and the rest of it to read:

194 Phonetics (2) I,G 1952-53 Nicholson

195 Advanced Grammar (2) II,G 1952-53 Nicholson

Under 299. Seminar. Change units from (2 to 4) to (2).

Under preliminary announcement of the teaching minor, change the whole  
sentence to read: "The teaching minor must include 3a-3b, 13a, 14a, 110a, 110b,  
and 194."

Zoology - Page 267 - The major: 24 units in addition to 4a-4b. The major shall include  
45 and 146, and may include Bacteriology 107 and 157, and Entomology 112. Sixteen  
units must be upper-division.

The supporting minor should be chosen from: bacteriology, botany, chemistry,  
geology, mathematics, physics, or psychology.

The teaching minor must include 4a-4b, 44, 30, and 134 or 135, to total  
at least 16 units.

Page 268 Zoology 130. Change course number to 30. This course will be required of  
second semester sophomores in the wildlife major. Delete "(for fall of 1949, 8,  
or 45)." Change laboratory hours to 3L, 3 field. Change offering to second  
semester.

Zoology 150. Change title to "Techniques of Biological Literature and  
Nomenclature." Change unit credit to 2.

Page 269 Zoology 299. Change as follows: Seminar. (1) I,II - Review of current  
literature with assigned topics, reports and discussions. Open to qualified seniors.  
(a) Seminar in invertebrate zoology and parasitology. Mean. (b) Seminar in verte-  
brate zoology. Marshall-Broadbooks-Lowe. (c) Seminar in ecology. Lowe. (d) Seminar  
in wildlife management. \_\_\_\_\_ Zoology 300. Research. Change units to (2-8).  
Add: Zoology 310. Thesis (2-8) I,II Staff

Classics - Pages 202-203 - Drop all course descriptions in the department's announce-  
ment of courses. They are not necessary. EXCEPTION: Classics 15, The Study of Words

EXTENSION CLASS IN HEBREW: The Council approved the request that Hebrew la-le (2),  
and Hebrew la-2e (2) be changed to 100a-100b. P., 16 units of a foreign language.

GENERAL CATALOG MATERIAL - ADMISSION TO FRESHMAN STANDING: The Council approved a  
recommendation by a Liberal Arts College Committee that the present Admission Plan B  
be discontinued and a new plan substituted for it. It was provided however that  
the statement of the new plan would be modified in connection with admissions to the  
College of Business and Public Administration which wishes to insure that the student  
will offer credit in not less than four groups ~~other than English~~. The new plan will  
apply in the Colleges of Liberal Arts, Fine Arts, and Business and Public Administra-  
tion. The listing of the subject matter groups and the admission requirements by  
colleges are approved as follows:

CLASSIFICATION OF ACCEPTABLE HIGH SCHOOL SUBJECTS

Group 1. English:--Only courses in history and appreciation of literature, composi-  
tion, grammar.

- Group 2. Foreign Language:--French, German, Spanish, Latin, Greek. Less than one unit is not accepted. Note: Students who have completed two years of a language in high school and desire to continue the subject in the University ordinarily register for the work of the first semester of the sophomore year. University courses in language which cover work completed in high school may not be taken for credit unless the high school credits are in excess of the admission requirements.
- Group 3. Mathematics:--Only courses in algebra, plane, solid or spherical geometry, and trigonometry.
- Group 4. Social Studies:--History, civics, economics, sociology, geography.
- Group 5. Laboratory Science:--Only courses in biology, chemistry or physics in which at least one regular laboratory period is scheduled each week.
- Group 6. Art, bookkeeping, commercial arithmetic, general mathematics, general science, manual training, music, journalism, stenography, typewriting, and other subjects commonly offered for credit by high schools.

SUMMARY OF REQUIREMENTS BY COLLEGES FOR ADMISSION TO FRESHMAN STANDING

College of Agriculture and School of Home Economics: English, 3 units; elementary algebra, 1 unit; plane geometry, 1 unit; history, 1 unit; laboratory science, 1 unit; electives, 8 units.

College of Business and Public Administration: The applicant may offer credits under one of the following plans:  
Plan A: English, 3 units; foreign language, 2 units (one subject); elementary algebra, 1 unit; plane geometry, 1 unit; history, 1 unit; laboratory science, 1 unit; electives, 6 units.  
Plan B: English, 3 units; elementary algebra, 1 unit; 6 additional units chosen from Groups 1, 2, 3, 4, or 5; 5 elective units. A minimum of four of these groups must be represented in the units offered.

College of Engineering: English, 3 units; foreign language, 2 units (one subject); elementary algebra, 1 unit; advanced algebra,  $\frac{1}{2}$  unit; plane geometry, 1 unit; solid geometry,  $\frac{1}{2}$  unit; history, 1 unit; physics, 1 unit; electives, 5 units. Chemistry is recommended.

College of Fine Arts and School of Music: The applicant may offer credits under one of the following plans:  
Plan A: English, 3 units; foreign language, 2 units (one subject); elementary algebra, 1 unit; plane geometry, 1 unit; history, 1 unit; laboratory science, 1 unit; electives, 6 units.  
Plan B: English, 3 units; elementary algebra, 1 unit; 6 additional units chosen from Groups 1, 2, 3, 4, or 5; 5 elective units.

College of Liberal Arts: The applicant may offer credits under one of the following plans:  
Plan A: English, 3 units; foreign language, 2 units (one subject); elementary algebra, 1 unit; plane geometry, 1 unit; history, 1 unit; laboratory science, 1 unit; electives, 6 units.  
Plan B: English, 3 units; elementary algebra, 1 unit; 6 additional units chosen from Groups 1, 2, 3, 4, or 5; elective units--5.

NOTE: Students who apply for admission to the College of Liberal Arts under Plan B are strongly advised to offer 1 unit of plane geometry. Students must meet the prerequisites for all University courses for which they register. The University gives no courses in high school algebra or geometry, and these courses are prerequisite to the beginning courses in astronomy, mathematics, and physics. All students who wish to take work leading to the Bachelor of Science degree in the College of Liberal Arts or in Pharmacy should offer both elementary algebra and plane geometry. Students without this preparation will also be severely handicapped if they wish to major in any of the biological

or physical sciences, in mathematics, or in philosophy or psychology.

Unless special circumstances indicate the wisdom of omitting foreign language, the student is strongly advised to present two units of work therein.

College of Mines: English, 3 units; foreign language, 2 units (one subject); elementary algebra, 1 unit; advanced algebra,  $\frac{1}{2}$  unit; plane geometry, 1 unit; solid geometry,  $\frac{1}{2}$  unit; history, 1 unit; physics, 1 unit; electives, 5 units. Chemistry recommended.

College of Education, College of Law, College of Pharmacy: Admission to these colleges requires advanced standing and is based on completion of from one to three years of study in the University. For a detailed statement of admission requirements, see the section of the catalog covering the college concerned.

Graduate College: (Page 162. Delete paragraph entitled General prerequisites for graduate credit and substitute:) General prerequisites for major and minor graduate credit. The undergraduate major, or its equivalent, in any field of study is prerequisite to major graduate work in that field. In some cases a field of concentration in the under-graduate work different from but suitably related to the graduate major may be acceptable. The minimum requirement in Education is 15 units, of which 3 may be in general psychology.

Supporting or minor courses have as a prerequisite for graduate credit a minimum of twelve units basic to the subject, including all prerequisites stated in the description of the course.

Deficiencies in undergraduate preparation must be satisfied by the completion of prescribed courses for undergraduate credit.

Page 146. Delete section pertaining to Education courses listed under "Liberal Arts List of Courses" and substitute the following:--Education 111, 112, 140, 141, 142, 150, 151, 154, and 210. (Other courses in education are not open to students registered in the College of Liberal Arts. See Statement P. \_\_\_ of this catalog.)

The purpose is to permit upper division students registered in the College of Liberal Arts to take these education courses which are of general, rather than strictly professional, interest. The limitation of six units as a maximum that Liberal Arts students may take and count toward their degree would thereby be removed and should be stricken from Page 146 and Page 208 of the catalogue.

Changes in the Liberal Arts List of Courses, Page 146: Change the entry under "ART," to read: All courses except 60a-60b, 165a,b,c,d; 180a,b,c,d.

After Home Economics, insert: Journalism: all courses except 125a-125b.

After Mathematics, change the entry to read: All courses except 69a, 70. Mathematics requirement for the degree of B.A. or B.S. On page 145, after Group VI under the requirements for both the B.A. degree and the B.S. degree, place an asterisk or dagger, and provide the footnote: "Math. 69a and 70 are not accepted toward satisfaction of this group requirement."

The Council approved the following new courses and changes for the new biennial catalog:

Page 150: Immediately preceding College Honors, insert the following statements and curriculum:

Wildlife Management

For the student interested in technical training in wildlife management a special curriculum has been arranged. The degree of Bachelor of Science in wildlife management is offered. This course of study is designed to serve either as a preparation

for graduate work in this field or for employment in wildlife management at the end of four years. Those who are interested in this curriculum should consult either the Leader of the Cooperative Wildlife Research Unit or the Head of the Zoology Department.

Students entered in this curriculum are urged to spend at least one summer, if possible, in the employment of one of the agencies engaged in wildlife or forest conservation within the state of Arizona or in one of the neighboring states.

Wildlife Management Curriculum

<u>Freshman Year</u>			
<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
Zoology 4a (General Zool.)	4	Zoology 4b (General Zool.)	4
English 1a (Fresh. Comp.)	3	English 1b (Fresh. Comp.)	3
Botany 1 (General Botany)	4	Math. 20 or 22 (Algebra)	3-5
Social Science	3	Social Science	3
Physical Education	1	Physical Education	1
Military	1	Military	1
	<u>16</u>		<u>15-17</u>
<u>Sophomore Year</u>			
Zoology 10 (Intro. to Wildlife Conserv.)	2	Botany 106 (General Ecology)	4
Chemistry 1a or 2a (General)	4	Chemistry 1b or 2b (General)	4
Math. 24 (Plane Trig.)	2	Botany 54 (Systematic)	4
Humanities	4	Humanities	4
Math. 91 (Intro. to Stat.)	3	Military	1
Military	1		
	<u>16</u>		<u>17</u>
<u>Junior Year</u>			
Zoology 135 (Mammalogy)	4	Zoology 134 (Ornithology)	4
Chemistry 40 (Organic)	4	Bacteriology 107 (General)	4
Zoology 149 (Parasitology)	4	Agric. Chem. 1 (Soils)	3
Geology 1a (Gen. Geology)	4	Entomology 1 (Intro.)	4
	<u>16</u>		<u>15</u>
<u>Senior Year</u>			
Zoology 138 (General Ecol.)	4	Zoology 133 (Ichthyology and Herpetology)	4
Zoology 112 (Heredity)	2	Zoology 160 (Wildlife Mgmt.)	4
Soc. Science	3	Zoology 299 (Seminar in Wildlife Mgmt.)	1
Zoology 155 (Wildlife Tech.)	2	Electives	7-5
Zoology 299 (Seminar)	1		
Electives	2		<u>16-14</u>
	<u>14</u>		

Graduate Study in Wildlife Management

For information in regard to the Master of Science degree in wildlife management students should consult the Leader of the Cooperative Wildlife Research Unit, or the Head of the Department of Zoology, and the Dean of the Graduate College.

Change the prerequisites in each of the two courses Zoology 135 (Mammalogy) and Zoology 138 (General Ecology) to read as follows: "P, 4b; for students in Agriculture, 4a and Animal Pathology 116."



Page 167 Change "Thesis" to "Dissertation" throughout. Delete beginning with line 8:

"Prior to ... dean." Starting with a second paragraph, add:

Publication of dissertation.--Ph.D. dissertations are published by University Microfilms, Ann Arbor, Michigan, and a fee of \$25 is charged to cover this expense. Upon certification by the student's major professor, members of the committee for his final examination, and the dean of the Graduate College, the typed first copy and an abstract of 700 words or less, is forwarded to University Microfilms. The manuscript is microfilmed, the negative inspected, and put in vault storage. The manuscript is catalogued and this information is sent to the Library of Congress, for printing and distribution of cards to depository catalogues and libraries. The abstract is printed in the forthcoming issue of Microfilm Abstracts and distributed to leading libraries here and abroad, and to a selected list of journals and abstracting services. The first copy with one positive microfilm is then returned to the University Library.

Publication by microfilm does not preclude publication by other methods later, and successful candidates are urged to submit dissertation material for publication in a journal of its field. Suitable acknowledgment must always indicate the publication to be a dissertation, or portion of a dissertation, submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy at the University of Arizona.

Page 166 Delete present paragraph on Residence and credit requirements and substitute the following:--Residence and credit requirements.--Not less than six semesters of essentially full-time graduate study are required. At least two regular semesters of course work (during which the student is registered for at least 12 semester hours) must be completed at the University of Arizona. The total minimum requirement in semester hours is 60 hours, including work for the Master's degree. Research for the dissertation, for which no credit is given, is understood to require not less than one year of full-time work, exclusive of work accomplished in connection with a Master's thesis. All requirements for the degree must be met within a period of ten years.

Page 162 First paragraph, line 2, change 15 to 16. Line 16, change 15 to 16.

Page 159 Under Fine Arts, add Art before Band and orchestral instruments, and add dramatic arts after composition.

Place asterisk after chemistry under Physical sciences.

Page 161 Under Graduate record examination, 13th line, change \$10 to \$8 to \$12.

Change The Graduate Record Examination, 437 West 59th Street, New York 19, New York, to: Educational Testing Service, P.O. Box 9896, Los Feliz Station, Los Angeles 27, California, or P.O. Box 592, Princeton, New Jersey.

Page 68 Following paragraph entitled Graduation fee, add a new paragraph:  
Graduation in absentia.--Candidates upon whom degrees are to be conferred are expected to be present in the Commencement procession, unless especially excused by their Deans. Candidates who complete degree requirements in residence at the end of the second semester and who absent themselves without this approval will be required to pay a fee of \$10 before the diploma will be issued or graduation certified.

Page 159 Under Biological sciences, add after "plant pathology": Wildlife management.  
Under Physical sciences, after "mining engineering," add pharmacy.

Page 234 Under Individual Studies, insert above 310, Thesis, the following: 300.  
Research (2-8) I,II Staff

Pages 165-167 Change "thesis" to "dissertation" wherever the reference is to the Ph.D. degree.

Page 163 Under third paragraph, Thesis work in absentia, add as a final sentence:--  
"These regulations apply also to the dissertation for the Ph.D. degree."

Page 163 Under third paragraph, Thesis work in absentia, add as a final sentence:-  
"These regulations apply also to the dissertation for the Ph.D. degree."

Page 164 After the two paragraphs under Final examination insert the following:  
Special requirements for the degree of Master of Arts with a major in Art.--The Art Department offers graduate courses leading to the degree of Master of Arts. The degree of Master of Arts will be conferred for advanced work done by students who have received the degree of Bachelor of Fine Arts from this institution or from one of similar standing. Candidates for the degree of Master of Arts who have received bachelors' degrees other than the Bachelor of Fine Arts are required to take enough undergraduate courses in art to make up the deficient units for the degree of Bachelor of Fine Arts as that deficiency shall be determined by the major professor. Otherwise the requirements are the same as those outlined above for the degree of Master of Arts or Master of Science, with the exception that an original work of art must be offered in lieu of a thesis. The work of art submitted must be accompanied by all sketches, preliminary works, organized annotations of research and other materials connected with its accomplishment, together with a written essay setting forth the method of procedure, technical, compositional, and subjective observations, and a description of the nature of the original contribution in the work of art. The art department reserves the right to retain the work submitted for its permanent collection.

The candidate is required to submit a one-man exhibit of his work to the University Art Gallery during his last semester in residence.

The decision as to whether or not the requirements are satisfactorily met shall rest with a committee of the faculty of the Art Department, as selected by the head of the department, with the approval of the Dean of the Graduate College. Certification shall follow the procedure used in connection with the oral examination. Following this certification two copies of the essay and two copies of an abstract of the essay, the abstract to be 200 words or less in length, are filed with the dean for subsequent deposition in the University Library; and a fee of \$5 is paid to the University Comptroller to cover the cost of binding.

Page 92 Add to the list of degrees (bottom of page): Bachelor of Arts in Art, 125 units; Bachelor of Arts in Music, \_\_\_ units.

Page 127 Under heading, COLLEGE OF FINE ARTS, in the second paragraph reading:  
"Students majoring in art, dramatic arts, or speech register in and are graduated from the College of Fine Arts;..." Change to read: "Students majoring in art, except in the College of Education, or in dramatic arts or speech register in and are graduated from the College of Fine Arts;..."

Page 128 Under listing of courses leading to the degree of Bachelor of Fine Arts with a major in art, after Senior Year outline, and before listing of courses leading to the degree of Bachelor of Arts in Speech, insert the following:

COURSES LEADING TO THE DEGREE OF BACHELOR OF ARTS IN ART WITH  
MAJORS IN THE PRACTICE AND THEORY OF ART OR IN THE HISTORY OF ART

Freshman Year

<u>Subject</u>	<u>Units per semester</u>
English 1a-1b (Composition)	3
Foreign Language *	3-4
Social Science (from Group V)	3
Physical Education, Military Science 1a-1b (men)	2
Physical Education, Orientation (women)	2-1
Art 3a-3b (Art Fundamentals)	2
Art Elective	3
	<u>15-17</u>

<u>Subject</u>	<u>Sophomore Year</u>	<u>Units per semester</u>
Foreign Language *		3-4
Humanities		4
Military Science 2a-2b (men)		1
Physical Education (women)		1
Art Electives		3-4
Electives		4
		<hr/> 15-17
	<u>Junior Year</u>	
Science (from Group IV)		4
Art Electives		4-6
Electives		9-7
		<hr/> 17
	<u>Senior Year</u>	

Selection of additional courses to complete the major and minor requirements and the numerical requirement of 125 units.

NOTE: The Asterisks placed after the listing of Foreign Language in the Freshman and Sophomore years refer to the footnote on page 127 in the current catalog.

Page 189 Under heading ART, revise to read: Professor Andersen, (Head of Department), Associate Professor Scott, Assistant Professors Quinn, Voris, Instructors Souden, Logan.

The department offers the following choice of majors:

1. The professional major, leading to the degree of Bachelor of Fine Arts. This major is outlined on page \_\_\_ (page 127 current catalog).
2. The major in the Theory and Practice of Art leading to the degree of Bachelor of Arts in Art: 34 units, including 3a-3b, 4a-4b, 6a-6b, 50a-50b, 54a-54b, 55a-55b, and 14 units of upper-division courses, to include 6 units in the history of art. This major is outlined on page \_\_\_.
3. The major in the History of Art leading to the degree of Bachelor of Arts in Art; 34 units, including 3a-3b, and 24 units in the history of art. This major is outlined on page \_\_\_.
4. For the major in the College of Education, see \_\_\_ (Note 6, page 114, in the current catalog).

For those students electing the majors leading to the degree of: Bachelor of Arts in Art, the supporting minor shall consist of 20 units in not more than two subjects, except that a fine arts minor may consist of 20 units taken in dramatic arts, music, and speech.

The department offers the following choice of minors:

1. The practice of art, to include 3a-3b, 4a-4b, 6a-6b, 54a-54b, 55a-55b, and at least 3 units in the history of art.
2. The history of art, to include 3a, 7a-7b, and 12 additional units in the history of art.
3. The teaching of art, to include 3a-3b, 4a-4b, 6a-6b, 7a-7b, and at least 4 elective units.

Page 127 Under heading: Course leading to the degree of Bachelor of Fine Arts..., and under heading Freshman Year, make the following changes: Change line reading Art 4 (Perspective), I, Art 5 (Lettering), II...2; to read: Art 4a-4b (Perspective)....1. Insert immediately below this line and above line reading Art 7a-7b... the new line: Art 6a-6b (Drawing)....2. In line giving total of units per semester, change numbers 16-15 to read 17-16.



Under heading, Sophomore year: Delete first two lines beginning: Art 12a-12b..., and Art 14..., and insert the following three lines: Art 50a-50b (Composition and Analysis)....2; Art 54a-54b (Color Theory)....1; and: Art 55a-55b (Painting I)...2. In line reading Electives...1-2, insert asterisk or other footnote indication after word: Electives\*, and change numbers to read: 2-3. Asterisk to refer to footnote suggested below. In line giving total of units per semester, change numbers 15-16 to read 16-17.

Under heading, Junior Year: Delete first three lines beginning: Art 102a-102b..., Art 14..., and Art 105a-105b...; and insert the following five lines: Art 100a-100b (History of Renaissance Art)....3, Art 144a-144b (Anatomy)...1, Art 145a-145b (Life Drawing)....2, Art 155a-155b (Painting II)...2, or Art 165a-165b (Commercial Design)...2. In line giving total of units per semester, change numbers 15-16 to read 16-17.

Insert either immediately after listing of courses under heading Sophomore year, or at foot of page, a footnote to read as follows: Students expecting to concentrate their interest in the field of commercial art are expected to enroll in the following sequence of courses: In the sophomore year, Art 60a-60b (Lettering), in the Junior year, Art 165a-165b (Commercial Design), and in the Senior year, Art 165c-165d (Commercial Design).

Page 126 Under heading Senior Year, change line: Art 117a-117b (History of Modern Art)...3, to read; Art 110a-110b (History of Modern Art)....3. Delete the following two lines, and replace with the following: Art electives (to be chosen in conference with major professor)...5-6. In line giving total of units per semester, change numbers 15-16 to read 16-17. In line reading: Total required for graduation...125, change number 125 to read 132.

Page 189 In the description of the course 3a-3b, after the words:...mediums and techniques, and before the designation: 4L., insert the designation: 1R. (Briefing period.) This will indicate, as the department herewith recommends, that one recitation period is to be added to the requirements for this course. This course will be broken into four sections, taught by at least two instructors. All of the sections must be given the same lecture on the theory involved in the problems to be assigned for the laboratory work. This can best be accomplished at one lecture period, and should be done by the director of the course.

In the description of course 4, make the following changes: Course number to be 4a-4b; title remains the same: Perspective; unit designation to be (1-1); abbreviation; Yr. to be added. Change description of course to read: The principles of Perspective; including one-point, two-point, and three-point perspective, light and shade, shadows, and atmospheric perspective.

After description of course 4a-4b, insert description of current course 12a-12b (Drawing), to be changed as follows: In number, from 12a-12b, to 6a-6b. Add to the name Quinn, as instructor, the names: Souden, Andersen. Change description of course to read: Elementary course in representational drawing and expressive pictorial design. After designation 6L., and before notation of fee, insert: Corequisite, 4a-4b.

After course 7a-7b, insert description of recommended new course: 50a-50b (Composition and Analysis.)

Next, insert following changed description of current course 15: Change number to 54a-54b. Change unit designation to (1-1), add abbreviation: Yr. In notation of fee, change to read: Fee \$1 each semester.

Insert description of recommended new course: 55a-55b (Painting I), which replaces course 102a-102b, which should be deleted.

Insert changed description of current course 5 (Lettering). Change number to 60a-60b, unit designation to (2-2), and add abbreviation: Yr.

Insert description of current course 105a-105b (History of Renaissance Art), changing number to 100a-100b.

Description of current course 117a-117b (History of Modern Art), changing number to 110a-110b.

Description of current course 108 (History of Oriental Art), changing number to 114, and add designation G, indicating graduate credit. At end of course description add: P, 7a-7b, and 6 units of history or art history.

Description of current course 115 (History of American Art), number and description same, add designation G to indicate graduate credit; and at end of course description add: P, 7a-7b and 6 units of history or art history.

Insert description of current course 14 (Anatomy), changing number to 144a-144b, unit designation to (1-1), and add abbreviation: Yr.

As indicated above, delete course 102a-102b.

Description of current course 103a-103b (Life Drawing), changing number to 145a,b,c,d, unit designation to (2) omit abbreviation: Yr., replace with semester designation I,II. In course description, after the words: from the model...insert: and from the work of the masters: after the words: emphasis on...delete the word form, and substitute words: anatomical sequence. After designation 6L, and before indication of fee, delete: P, 12a,12b, 14, and substitute: 144a-144b. P, 3a-3b, 6a-6b. Description should read as follows: \$145a,b,c,d. Life Drawing (2) I,II G. Scott. Study of the human figure from the model and from the work of the masters; emphasis on anatomical sequence and composition. 6L. P, 3a-3b, 6a-6b. Fee, \$6 each semester.

Delete course description of current course 106 (Water Color Painting) and insert, after listing of 145a,b,c,d, description of recommended new course 155a,b,c,d (Painting II).

Insert description of recommended new course 160a,b,c,d (Etching).

Page 190 In description of current course 112a-112b (Commercial Design), change number to 165a,b,c,d; unit and semester indication to: (2) I,II; and change prerequisites to read: P, 50a-50b, 60a-60b. Add: Fee \$1 each semester.

Delete description of current course 124a-124b (Advanced Painting) and, in its place, insert description of recommended new course 180a,b,c,d (Painting III).

Delete description of course 176 (Art in the Elementary Schools) and add at end of course descriptions and below listing of course 300, the following: Note: for course in art education see description of course Education 102a-102b (Public School Art Education.)

The Art Department recommends the following changes in its major in the College of Education as described in Note 6, page 114 of the current catalog: 36 units, to include 3a-3b, 4a-4b, 6a-6b, 7a-7b, 50a-50b, 54a-54b, 60a-60b, 155a-155b, 165a-165b.

Page 132 Insert as a new heading after the words "Piano Ensemble": REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS IN MUSIC.

Major (General) 30 units above Music 1a-1b to include Music 3a-3b; 4a-4b; 102a-102b, 108a-108b and 8 units of applied music.

Minor 20 units advised from the following departments: Art, Dramatic Arts, English, History, Language, Philosophy, Psychology and Speech.

Group Requirements: Same as for degree of Bachelor of Music: English 1a,b--6; Foreign Language (one subject, 16; Science, 8; Social Science, 6; Humanities, 8; PE, 2-4; Military, 4; Orientation, 1.

NOTE: The College of Fine Arts desires to offer a general curriculum with a major in music for those students desiring to study music for its cultural and non-professional aspects. A high degree of music performance attainment will not necessarily be achieved by these students undertaking this curriculum. The above was offered by the College of Liberal Arts in the 1942 catalog on page 229.

Students who complete requirements for the Bachelor of Arts degree in Music and who wish to become candidates for the Master of Music degree or the Master of Arts degree with a major in Music Education may be admitted to the Graduate College but will be required to make up for undergraduate credit, courses required for the Bachelor of Music degree or for the Bachelor of Arts in Education.

Page 165 Insert as a second subheading under Requirements for the Degree of Master of Music: Requirements for candidacy for the Master of Arts degree and the Master of Music degree.--Candidacy will be recommended only on the basis of accomplishment in course work during the first semester of residence, and on the results of a comprehensive examination given under supervision of the heads of departments concerned and covering the major field and the supporting fields. Competence in theory and piano are required of all candidates. Not more than 18 units in applied music may be counted towards requirements for a Master's degree in Music.

NOTE: In connection with the approval of the degree Bachelor of Arts in Music, the Council voted that the Introduction to Humanities would be a specified requirement, not only for this degree but for the degree of Bachelor of Arts in Speech and Bachelor of Arts in Dramatic Arts. The alternative requirement of Humanities or Literature is withdrawn in connection with these majors.

#### Department of Entomology

Page 96 In the curriculum outline for "Sophomore year," "First Semester" insert an asterisk or similar symbol after "Chemistry 40 (Organic)" and add the following footnote, with appropriate identifying symbol, at the bottom of the page: "Students majoring in Entomology should take Chemistry 103a-103b (General Organic Chemistry--2 semesters) instead of Chemistry 40."

The Council approved the following change:

Page 150 First line, under Independent Studies, add after "the College of Education," "the College of Pharmacy."

#### College of Pharmacy

Page 157 Instruction was first given in Pharmacy in September, 1947, in the School of Pharmacy which was then within the College of Liberal Arts. On July 1, 1949, the

School became the College of Pharmacy. The first graduates were given their degrees in May, 1950.

In order to be admitted to the College of Pharmacy, it is necessary for a student to have completed 32 units of college work including English 1a,b; Chemistry 1a,b or 2a,b; Mathematics 70; Zoology 4a; and Botany 2. The student must have made an average of 3.0000 or better in this work.

All students are required to register as apprentice pharmacists with the Arizona State Board of Pharmacy upon being admitted to the College of Pharmacy.

COURSE OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

Pre-Professional Year  
See College of Liberal Arts, Page \_\_\_

First Professional Year

Pharmacy 3 (Orientation)	1	Chemistry 103b (Gen. Organic)	4
Physics 17a (General)	4	Physics 17b (General)	4
Chemistry 103a (Gen. Organic)	4	Chemistry 3 (Qual. Anal.)	4
Pharmacy 1 (Prin. and Techniques)	4	Pharmacy 2 (Elem. Pharm. Prep.)	4
Pharmacy 10 (Calculations)	2	Military Science 2b (men)	1
Military Science 2a (men)	1	PE (women)	1
	<u>16</u>		<u>17</u>

Pages 246-248 In place of Pharmaceutical Chemistry as a department, list as a sub-division. Delete Pharmaceutical Chemistry 196 and 199.

Page 247 Same for pharmacognosy and pharmacology. Delete Pharmacognosy 196 and 199. Delete Pharmacology 196 and 199.

Page 248 Following Pharmacy Administration insert: Individual Studies. The College of Pharmacy makes available to qualified undergraduate students opportunity to work individually through the following:

- |                         |          |      |       |
|-------------------------|----------|------|-------|
| 196. Independent Study. | (2 to 4) | I,II | Staff |
| 199. Special Problems.  | (2 to 4) | I,II | Staff |

Page 248 1. Fundamental Principles and Techniques (4) I. Change description to read: The study and application of the fundamental principles, techniques, tools, and terminology common to pharmacy. 3R, 3L. Fee, \$5.

2. Elementary Pharmaceutical Preparations (4) II. Change description to: A study of the simple types of United States Pharmacopeia and National Formulary preparations. 3R, 3L. P, 1. Fee, \$5.

3. Orientation (1) I (Drop numerical notation 3a-3b, (1-1) and Yr. so that the title reads as immediately above.)

110a-110b. Change prerequisites to read as follows: P, 107, 108, Chemistry 103b.

Page 247 121a-121b. Change description to read as follows: A study of crude drugs based on their plant and animal origin. 3R, 3L. P, Botany 2, Chemistry 1b or 2b. Fee, \$10 each semester.

Department of Civil Engineering

Page 121 List of courses for Junior Year:

\*Change CE 114R (Mech. of Materials) 3 units to: CE 115R (Mech. of Materials) 4 units.

Change CE 114L (Materials Testing) to CE 115L (Materials Testing) in second semester.

\*Change electives second semester from 2 to 1 unit.

Page 123 List of courses for Senior Year: Delete: Ce 190 (Contracts and Specifications) 2 units from first semester. Add: CE 190 (Contracts and Specifications) 2 units to second semester.

Delete: CE 160 (Pavements) 2 units from second semester.

Add: CE 160 (Pavements) 2 units to first semester.

\*Delete: CE 162 (Soil Mechanics) 1 unit in second semester.

\*Add: CE 163 (Soil Engineering) 3 units in first semester.

\*Change: CE 152 (Sewerage) second semester from 2 units to 3 units.

\*Delete: Elective 3 units from first semester of senior year.

\*These changes will add 4 units of required courses and will reduce the curriculum by 4 units of electives.

Page 200 Change 114R to 114.

Change 114L to 115L.

Change 123 P 114R to 115R.

Change 126 P 114R to 115R.

Add 115R (Mechanics of Materials) (4) I,II (New Course)

Change 152 (Sewerage) from (2) to (3) units II, G. -- Sewage collection; design of sewers and storm drains; treatment processes in sewage disposal. 2R, 3L. P, 111R.

Change 160 (Pavements) (2) from II to I. G. Hall-Park -- Design and methods of construction of flexible and rigid pavements, including subgrade studies. 2R. P, 122; 171R, 171L or CR; CR in 163.

Drop 162 (Soil Mechanics) (1) II G.

Add 163 (Soil Engineering) (3) I G Park.

Page 201 Change 190 (Contracts, Specifications, and Engineering Relations) (2) from I to II. G. P, CR Senior Design Park.

Change 184 (Foundations of Bridges and Buildings) (1) II G Park to read: Underground exploration; bearing power of soils; footings; caissons; coffer-dams; piles. P 163, 171R.

Change 203 (Advanced Highway Engineering) (2) I 1950-51\* Hall to read: 203 (Advanced Highway Engineering) (3) I Hall - Economics of Highway improvement, vehicle time lost studies, economics of road surfaces, access highways and parkways, geometric highway design. 2R, 3L; P, 160.

Change 204 (Highway Traffic and Safety) (2) II. 1950-51\* Hall to read: 204 (Highway Traffic and Safety) (3) II Hall - The study of traffic for purposes of traffic control and highway improvement; traffic counts, relief of congestion, signal control, and channelization of motor vehicle flow. 2R, 3L. P, 160.

College of Education

Page 210 Delete Education 197f, the Teaching of the Social Studies. This course is no longer being offered.

The Council approved the following new courses and catalog changes:

Department of English

Page 216-- English 107 Radio News Editing (2) I (Cut down semesters offered to one.)

Department of Dramatic Arts

Page 204 Change major from 36 units to read 48 units. Add: to include 20a-20b, 21a-21b, 40a-40b, 50a-50b, 121a-121b, and 155a-155b.  
The Minor -- Change course numbers: 22a-22b to 50a-50b; 122a-122b to 155a-155b.  
Change 22a-22b to 50a-50b Acting (3-3) Yr.  
Change 24a-24b to 40a-40b History of the Theatre (3-3) Yr.  
Change 120a-120b to 160a-160b Play Writing (2-2) Yr. G.  
Change Prerequisite 24a-24b to 40a-40b.

Page 205 Change 122a-122b to 155a-155b Stage Direction (3-3) Yr.  
Change Prerequisites 22a-22b to 50a-50b; 125a-125b to 150a-150b.  
Change 124 to 130 Radio Acting (2) I,II  
Change Prerequisite 22a-22b to 50a-50b.  
Number of new course, "Radio and Television Production" (2-2) Yr. Staff to be 135a-135b.

Add Prerequisites, Speech 54, English 106a-106b, and Drama 130.  
Change 125a-125b to 150a-150b Advanced Acting (3-3) Yr.  
Change Prerequisite 22a-22b to 50a-50b.  
Change 126a-126b to 140a-140b History of the Modern Theatre (2-2) Yr. G.  
Change Prerequisite 24a-24b to 40a-40b.  
Change 127a-127b to 227a-227b.  
Change title of course "Problems of Play Production" to read, "Problems of Theatre Methods and Practice."  
Delete alternate years 1949-50.  
Change Prerequisites, 22a-22b to 50a-50b; 125a-125b to 150a-150b; 122a-122b to 155a-155b.  
Change 128a-128b to 200a-200b Advanced Technical Problems (3-3) Yr. G.  
Delete alternate years 1949-50.  
Change 129a-129b to 221a-221b Problems in Stage Costume (3-3) Yr. G.  
Delete alternate years 1950-51.  
Delete P, 123a,b. Add 155a,b.  
Change 130a-130b to 255a-255b Problems of the Producing Director (3-3) Yr. G.  
Delete alternate year 1950-51.  
Delete "senior standing"  
Change prerequisites, 24a-24b to 40a-40b; 122a-122b to 155a-155b.

Add 300 Research (2 to 5) I,II Staff  
310 Thesis (2 to 4) I,II Staff

Department of Mathematics

Page 234 Mathematics 70. Change title of course from Mathematics for Students in Agriculture to Elementary Algebra and Trigonometry. Add to the description of the course the following statement: "Open only to students in agriculture and prepharmacy."

College of Fine Arts

Dramatic Arts 300 Research (2-5) I,II Staff  
Dramatic Arts 310 Thesis (2-4) I,II Staff

Physical Education for Men

Page 180 Change Health Education to read: Health Education (3) I,II Staff DENIED  
This change was denied by the Council. It was recommended that the course not be changed from its present status.

NEW EXTENSION COURSES, APPROVAL OF:

College of Fine Arts

Art 124-E Textile Design and Silk Screen Printing (2) I,II Wright - A course in the techniques of textile design and production, particularly by the method of silk screen printing. P, 3a-3b.

Art 123-E Children's Book Illustration (2) I,II Peck - This course is designed for artists and art students who wish to enter the field of juvenile book illustration. It includes study of illustration for various age groups, execution in black and white and color, design of book jackets, and study of the printing, photoengraving, and other production processes. P, 3a-3b, 50a-50b, or their equivalents.

The Council approved the following change in course offerings for the Extension Division: (Recommended by the Art Department).

Change 12a-12b (Drawing) to 6a-6b.

Delete 102a-102b (Still Life and Landscape Painting) and replace it with 55a-55b (Painting I).

Delete 106 (Water Color) and replace it with 155a,b,c,d (Painting II).

The department recommended that the aforementioned courses, 12a-12b, 102a-102b, and 106 be retained, to be offered in extension only; changing the number of course 102a-102b to 22a,b,c,d and changing the number of course 106 to 106a,b,c,d.

The department feels that its extension courses fill a need in the community, but also feels that its extension offerings are not, and cannot be, the equivalent of its regular offering. This feeling is based on two facts: (1) The time allowance in extension permits only half the offering of the regular classes, and (2) The co-requisites and prerequisites for the regular courses cannot be met in extension.

The department believes, therefore, that the extension courses offered should bear different numbers from the regular courses, and should attempt to offer only as much as can be reasonable accomplished in the shorter time allotment, with a corresponding reduction in the number of units allowed.

The department therefore recommends that the following described courses be offered in extension only:

6a,b,c,d Drawing (1) I,II Staff  
Charcoal drawing from still life and cast, employing naturalistic and schematic systems of representing form. Two semesters of this course may be regarded as the equivalent of one semester of course 6a-6b in the regular offering.

22a,b,c,d Still Life and Landscape Painting (1) I,II Staff  
Painting from still life and landscape; techniques and composition. P, 2 units of (Drawing) 12 or (Art Fundamentals) 3a,3b. Two semesters of this course may be regarded as the equivalent of one semester of course 55a-55b in the regular offering.

106a,b,c,d Water Color Painting (1) I,II Staff  
Technical problems of the water color medium as applied to landscape painting. P, 2 units of (Drawing) 12 or (Art Fundamentals) 3a-3b. Two semesters of this course may be regarded as the equivalent of one semester of course 155a,b,c,d in the regular offering.

Since the department anticipates the necessity of offering these courses for the time allotment ordinarily devoted to 2-unit courses, and the work-load on the instructor would remain the same as the teaching of a 2-unit course, the department recommends that the recompense for each unit offered be reckoned on the basis of a two-unit offering. This might be made practicable by charging the students a 2-unit fee for each unit offered.

The department believes that the above suggestion opens the only practical manner in which art courses may be offered in extension in a manner fair and equitable to students and instructors alike, and in harmony with the offerings in the regular courses.

The Council approved the following new correspondence course:

Economics 101C Economics for Engineering and Mining Students (3)  
Principles of economics adapted to the needs of those in the technical fields of engineering and mining. This course includes the study of both principles and problems. Not open to students who have credit in Economics 1a and 1b or 2a and 2b.

NEW COURSES, DELETION OF: In accordance with the policy decided upon at the Council meeting of February 7, the Council voted at this meeting to delete, so far as the new catalog is concerned, a number of new course previously approved by the Council in recent months. It had been decided that a minimum of new courses should be established at this time, in the light of the anticipated sharp decrease in enrollment in September, 1951. The following recently approved new courses were withdrawn:

College of Pharmacy: Pharmacy 206 Alkaloids

College of Agriculture: Entomology 195 Applied Entomology

College of Mines: Metallurgy 105 Fire Assaying for Mining Engineers  
Metallurgy 115 Heat Treatment of Steels

College of Education: P.E. for Men 45 Weight Training  
P.E. for Men 43 Competitive Wrestling  
Library Science 103  
Education 197b The Teaching of Bkkg. and Basic Bus. Subj.

College of Fine Arts: Music 107 Survey of Piano Literature  
Art 50a-50b Composition and Analysis  
Speech 55 Radio and Television Announcing  
Drama 135a,b  
Music Educ. 259 Problems in Choral Literature  
Music Educ. 278 Problems of the Critic Teachers in Music  
Music Educ. 279 Problems in Instrumental Supervision

College of Liberal Arts: Chemistry 104 Theories of Inorganic Chemistry  
Chemistry 108 Inorganic Preparations  
Chemistry 284 Chemical Kinetics  
Chemistry 296 Electrochemistry





To make all catalog statements consistent, the same relative statement should be deleted from Home Economics course No. 2, page 227.

College of Mines

Delete Metallurgy 105, a new course, and change Metallurgy 106 to read as follows:  
 106 Fire Assaying and Sampling (2 or 3) I or II Mueller  
 The theory and practice involved in the determinations of gold, silver, and lead in ores and metallurgical products by pyro methods; theory and practice of ore sampling. For students in metallurgy: 1R, 6L. For students in Mining, 1R, 3L. Fee \$5 per unit. P, Chemistry 3 or 54.

Delete Metallurgy 115, a new course, and change Metallurgy 116 to read as follows:

116 Alloys and Heat Treatment (1 or 3) I,II Meyer  
 A study of the important nonferrous and ferrous alloys. For students in mechanical engineering, 2R, 2L. For students in mining engineering, 3L. P, Chemistry 1b or 2b. Fee, \$1 per unit.

Delete Metallurgy 204 and change Metallurgy 205 to read as follows:

205 Advanced Mineral Dressing and Hydrometallurgy (2 to 8) I,II Chapman-Cunningham  
 Advanced classroom or laboratory work, or both, in mineral dressing or hydrometallurgy. P, 107R, 107L, and senior standing in mining, metallurgy, geological engineering, or chemistry. Fee, \$1 per unit.

Delete Geology 212.

College of Engineering

Change in fees for Civil Engineering Courses

	Present Fee	Change To
CE 3 Engineering Drawing	\$ 1.50	\$ 2.00
CE 4 Descriptive Geometry	1.50	2.00
CE 51 Elementary Surveying	3.00	4.00
CE 52 Topographical Surveying	3.00	4.00
CE 103 Advanced Surveying	5.00	6.00
CE 110 Route Surveying	5.00	6.00
CE 111L Hydraulics Laboratory	2.00	3.00
CE 114L Materials Testing Laboratory	3.00	4.00
CE 123 Structures 1	1.00	1.50
CE 126 Structures 2	1.00	1.50
CE 162 Soil Mechanics	3.00	4.00
CE 171R Reinforced Concrete Construction	1.00	2.00
CE 171L Reinforced Concrete Construction	3.00	4.00
CE 173 Statically Indeterm. Structures (max. Field Trip)	20.00	25.00
CE 181 Steel Mill Buildings	1.00	2.00
CE 182 Bridge Design	1.00	2.00
CE 207 Advanced Geodetic Surveying	5.00	6.00