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EUGENE OREGON



ANNOUNCEMENT OF COURSES

1921-22

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ELIZABETH FREEMAN FOX, B.A. ..... Dean of Women
WILBUR K. NEWELL ..... Superintendent of University Properties
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THE COLLEGES AND THE SCHOOLS

GEORGE REBEC, Ph.D. ..... Dean of the Graduate School
COLIN VICTOR DYMENT, B.A. .....
..... Dean of the College of Literature, Science, and the Arts
ELLIS F. LAWRENCE, M.S. ..... Dean of the School of Architecture
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..... Dean of the School of Business Administration
HENRY DAVIDSON SHELDON, Ph.D. Dean of the School of Education
ERIC W. ALLEN, B.A. ..... Dean of the School of Journalism
WILLIAM G. HALE, B.S., LL.B. ..... Dean of the School of Law
RICHARD B. DILLEHUNT, B.S., M.D. Dean of the School of Medicine
JOHN J. LANDSBURY, Mus.D. ..... Dean of the School of Music
JOHN FREEMAN BOVARD, Ph.D. .....
..... Dean of the School of Physical Education
FREDERIC G. YOUNG, B.A., LL.D. Dean of the School of Sociology
EARL KILPATRICK, B.A. .....
..... Director of Extension Division and Summer Schools

CALENDAR, 1921

JULY						
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CALENDAR, 1922

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UNIVERSITY CALENDAR 1921-1922

SUMMER SESSIONS

June 20, Monday ..... Portland Session opens. Registration.
June 22, Wednesday ..... Eugene Session opens. Registration.
July 4, Monday ..... Independence day. A holiday.
July 29, Friday ..... Portland Session closes.
July 30, Saturday ..... Eugene Session closes.

FALL TERM

September 24, Saturday ..... Fall term opens. Examination in English Composition for Freshmen.
September 26, Monday ..... Registration day.
September 27, Tuesday ..... Registration day.
September 28, Wednesday ..... All University work begins.
October 6, Thursday ..... Faculty meeting.
October 6, Thursday ..... Regular meeting Associated Students.
October 4, Tuesday ..... Last date in term for change of course.
November 1, Tuesday ..... Last date in term for withdrawal from class.
November 3, Thursday ..... Faculty meeting.
November 18, 19 ..... Annual Homecoming Week-end.
November 24, Thursday ..... Thanksgiving day.
December 1, Thursday ..... Faculty meeting.
December 5, 6, Monday, Tuesday.. Examinations for the removal of conditions.
December 8, Thursday ..... Regular meeting of Associated Students.
December 14, 15, 16 ..... Term examinations.
December 17, Saturday, to January 2, Monday ..... Christmas vacation.

WINTER TERM

January 3, Tuesday ..... Registration day.
January 4, Wednesday ..... Classes open.
January 5, Thursday ..... Faculty meeting.
January 10, Tuesday ..... Last date in term for change of course.
February 1, Wednesday ..... Last day in term for withdrawal from class.
February 2, Thursday ..... Faculty meeting.
February 22, Wednesday ..... Washington's birthday. A holiday.
March 2, Thursday ..... Faculty meeting.
March 9, Thursday ..... Regular meeting Associated Students.
March 22, 23, 24 ..... Term examinations.
March 25, Saturday, to April 2, Sunday ..... Spring vacation.

SPRING TERM

April 3, Monday ..... Registration day.
April 4, Tuesday ..... Classes open.
April 6, Thursday ..... Faculty meeting.
April 10, Monday ..... Last date in term for change of course.
April 22, Saturday ..... Filing of Failing and Beekman orations.
May 1, Monday ..... Last day in term for withdrawal from class.
May 1, 2, Monday, Tuesday ..... Examinations for the removal of conditions.
May 4, Thursday ..... Faculty meeting.
May 4, Thursday ..... Annual meeting Associated Students.
May 12, 13, Friday, Saturday ..... Junior week-end.
May 30, Tuesday ..... Memorial day. A holiday.
June 1, Thursday ..... Faculty meeting.
June 1, Thursday ..... Associated Students meeting.
June 14, 15, 16 ..... Term Examinations.
June 15, Thursday ..... Failing and Beekman orations, 8 p. m.
June 16, Friday ..... Flower and Fern Procession, 7 p. m.
June 17, Saturday ..... Alumni Day.
June 18, Sunday ..... Baccalaureate sermon, 11 a. m.
June 19, Monday ..... Commencement, 10 a. m.

COMMITTEES OF THE FACULTY

ADVISORY COUNCIL—(Elective)—President Campbell, Deans Sheldon, Hale, Robbins, Professors Gilbert, Barnett and Howe.

ADMINISTRATION OF HONORS—Professors Howe, Conklin and Dean Rebec.

ADMISSIONS—Professors McAlister, Dunn, Gregory, Stetson and Mr. Spencer.

ALBERT PRIZE—Deans Bovard, Fox and Landsbury.

APPOINTMENTS—Professors Gregory, Bates, DeCou, Cloran, R. C. Clark, Tingle, and Dean Bovard. Miss Burnett, secretary.

ATHLETICS—Professors Howe, Hayward and Dean Bovard.

BENNETT PRIZE—Professors Barnett, Turnbull and Cameron.

CATALOG—Professors Boynton, Hall and Mrs. Fitch.

CLASS ADVISERS—Seniors, Miss Dobie and Professor Crockatt; Juniors, Professors Lomax and Perkins; Sophomores, Professors Thacher and Watson; Freshmen, Deans Straub and Fox.

COLLOQUIUM—Professors Wheeler, Larremore and Mr. Onthank.

COMMENCEMENT AND ASSEMBLY—President Campbell, Dean Straub, Professors Gilbert, Dunn, Evans, and Rhodes.

FREE INTELLECTUAL ACTIVITIES—Professors Bates, Wheeler, Watson, Larremore, Torrey, Stafford, Barnett, and Dean Allen.

GERLINGER CUP—Deans Fox and Straub, Mrs. A. C. Dixon, Mrs. F. M. Wilkins, Mrs. P. L. Campbell, the President of the Student Body and the President of the Woman's League.

GRADUATE COUNCIL—Deans Rebec, Young, Sheldon, Professors Schmidt, Boynton, Packard, Conklin and Bates. Mr. Spencer, secretary.

GRADUATION DEFICIENCIES—Deans Allen, Bovard, Professors McAlister, Cloran, and Bolitho.

HEALTH—Dean Bovard, Dr. Sawyer, Dr. Stuart, Professors Sweetser and Thomson. Advisory members, Deans Straub and Fox.

INTRA-MURAL SPORTS—Professors DeCou, Hayward, Thomson, McDougle and Warner.

KOYL CUP—Dean Straub, Professors Lomax, Dunn, Crockatt, and Mr. Huntington.

MEDICAL SCHOOL SCHOLARSHIP—Professors Torrey, Shinn, and Caswell.

MILITARY CREDITS—Professors Howe, Allen and Boynton.

MILITARY TRAINING—Dean Hale, Professors Thacher, Yocom, and Baird, Dr. Sawyer, Mr. Onthank and Mr. Spencer.

PRE-ENGINEERING—Professors Caswell, McAlister, DeCou, Shinn and Packard.

PROBATION—Deans Dyment, Sheldon, Professors Watson, Shinn, and McDougle. Mr. Spencer, secretary.

RELIGIOUS AND MORAL ACTIVITIES—Mr. M. H. Douglass, Professors DeCou, Sweetser, Perkins, Evans, Caswell, and Dean Fox.

RESEARCH—Professors Packard, Torrey, Milne, McAlister, Deans Sheldon and Robbins.

REVISION OF STUDENT COURSES—Professors Gilbert, Winslow and H. R Douglass.

RHODES SCHOLARSHIP—Dean Dyment, Professors Barnes and Bates.

SCHEDULE—Professor Boynton, Mr. Spencer and Mr. Onthank.

SPECIAL STUDENTS—Professors DeCou, Shinn, H. A. Clark, Watson, and Mr. Folts.

STUDENT ADVISORY—Deans Straub, Fox, Dyment and Robbins. Mr. Onthank, secretary.

STUDENT AFFAIRS—Deans Fox and Straub, Professors Thomson, DeBusk and Torrey.

STUDENT LIVING—Dean Bovard, Professors Crockatt, Edgington, McDougle, and Miss Robertson. Advisory members, Deans Fox and Straub.

UNIVERSITY PUBLICATIONS—Deans Allen, Young, Sheldon, Professors Thacher, Sweetser, Packard, and Mr. M. H. Douglass.

REGISTRATION INSTRUCTIONS

1. Students may register for the first term on Monday and Tuesday, September 26 and 27; for the second term on Tuesday, January 3; and for the third term on Monday, April 3. Classes begin September 28, January 4, and April 4 of the Fall, Winter and Spring terms respectively.

2. Freshman English examination is held in Villard Hall at one o'clock on September 24, January 2 and April 1.

3. New students submit credentials at window No. 12, Registrar's office. Those who have mailed credentials and received cards of admission go directly to the advisers they have chosen.

4. Study cards (R. Form 3) are provided by advisers who help plan courses and fill out the card.

5. Required courses are English Composition, 3 terms, unless exempted by examination; 2 years of physical education; 2 years of military science for men; practical ethics, and hygiene, for women. The group requirements must be fulfilled during the first 2 years.

6. No student is legally registered in the University until his study card is filed at the Registrar's office. Cards must be filed not later than 2 days after the regularly scheduled registration period ends. (See 1 above). Students filing cards later are required to pay a late-registration fee of $1.00 for the first day and 25 cents for each additional calendar day. Cards are not accepted later than the 14th calendar day after the regularly scheduled registration period.

7. The $10.75 registration fee must be paid before the study card can be filed. Laboratory, locker and syllabus fees must be paid during the periods from the 15th to the 30th of October, January and April. Later payment involves a late-payment fee of $1.00 and failure to pay within two days of the periods mentioned above causes a forfeiture of credit.

8. Non-residents proceed in all respects as resident students. Special notices regarding the non-resident fee will be mailed to the individuals concerned at a later date.

9. A student may change the courses on his study card up to and including October 4, January 10, and April 10 of the three terms of 1921-22 respectively. After that date changes can be made only by special permission and upon the payment of a fee of $1.00. No permission is granted to change courses after November 1, February 1 and May 1 of the respective terms.

UNIVERSITY OF OREGON YEAR SCHEDULE 1921-22

Registration fee $10.00 per term. Additional Law Registration Fee, $10.00 per term.
Non-resident fee $20.00 per term.

By faculty regulation, all courses are announced over the name of a member of the permanent staff, of rank not lower than instructor. In some cases the actual instruction is delegated to a graduate assistant.
** Signifies to be arranged.

ARCHITECTURE AND ALLIED ARTS

ARCHITECTURE

Course Number			*Fee*	*Subject, Credit, Days and Hour*	*Room Bldg.*	*Instructor*
Fall	*Winter*	*Spring*				
1a	1b	1c	....	Architectural Design—Elements (1) W 1-4	201 Arch	Lawrence and King
2a	2b	2c	....	Architectural Design—Sophomore (3) **	201 Arch	Lawrence and King
101a	101b	101c	....	Architectural Design—Junior (4) **	201 Arch	Lawrence and King
102a	102b	102c	....	Architectural Design—Senior (6) **	201 Arch	Lawrence and King
3a	3b	3c	....	Architectural History—Sophomore (1) W 1	107 Arch	Lawrence
103a	103b	103c	....	Architectural History—Junior (2) W Th 8	107 Arch	Lawrence
111	....	....	....	Architectural History—Advanced (1) Th 9	107 Arch	Lawrence
	4a	4b	....	Research in Ornament and Style—Soph (1) W 1-4	201 Arch	Lawrence and King
104a	104b	104c	....	Research in Ornament and Style—Junior (1) W 1-4	201 Arch	Lawrence and King
105a	105b	105c	....	Domestic Architecture—Junior (1) W 11	107 Arch	Lawrence
107a	107b	107c	....	Domestic Architecture—Advanced (1) **	107 Arch	Lawrence
106a	106b	106c	....	Specifications and Working Drawings (1) M 8	201 Arch	King
108a	108b	108c	....	City Planning (1) W 10	107 Arch	Lawrence
	109a	109b	....	Ethics and Business Relations (1) Th 10	107 Arch	Lawrence
110a	110b	110c	....	Pen and Pencil (1) F 8	107 Arch	King
51a	51b	....	....	Descriptive Geometry (2) Tu Th 10	107 Arch	Adams
....	....	52	....	Shades and Shadows (2) Tu Th 10	107 Arch	Adams
54a	54b	54c	....	Mechanical Drawing (2) MW 1-4	201 Soc	Adams
....	55	....	....	Perspective (2) MW 10	107 Arch	Adams
....	62a	62b	.50	Surveying (2) F 1-5	107 Arch	Adams
....	....	57	....	Advanced Mechanical Drawing (2) **	101 Soc	Adams
161a	161b	....	....	Strength of Materials (3) **	108 Arch	McAlister
162a	162b	....	.50	Graphic Statics (2) Tu Th 9	107 Arch	Adams
....	....	163	....	Stresses (3) **	107 Arch	Adams
....	....	164	....	Wooden Tresses (2) Tu Th 9	107 Arch	Adams
165	....	....	....	Hydraulics (1) **	108 Arch	McAlister
166	....	....	....	Special Subjects (1) **		
	167a	167b	....	Sanitary Science and Public Health (1) **		
168	....	....	....	Building Materials and Constructive Types (1) **	107 Arch	Adams
169a	169b	169c	....	Constructive Design (2) Tu Th 1-4	101 Soc	McAlister and Adams
170a	170b	....	....	Reinforced Concrete (3) **	106 Arch	McAlister

FINE ARTS

21a	21b	21c	....	Elementary Still Life (1) F 9-12	105 Arch		
22a	22b	22c	$3	Water Color and Oil Painting (1) Th 9	105 Arch		Schroff
23a	23b	23c	....	Theory of Color (1) Tu 10	105 Arch		Schroff
31a	31b	31c	$1	Life Class—Section I (1) F 1-4	105 Arch		Schroff and ——
31a	31b	31c	$2	Life Class Section II (2) Tu 7-10 p. m. F 1-4	105 Arch		Schroff and ——
131a	131b	131c	$1	Life Class—Section I (1) Tu or W 1-4	105 Arch		Schroff and ——
131a	131b	131c	$2	Life Class—Section II (2) Tu W 1-4	107 Arch		Schroff and others
41a	41b	41c	....	Art Appreciation (1) Th 2	101 Arch		Schroff
42a	42b	42c	$1	Art of Book and Poster (2) W 11, F 9-12	105 Arch		Schroff
132a	132b	132c	....	Cartoons for Murals and Stained Glass (1) Th 8-11	101 Arch		Schroff
141a	141b	141c	....	Civilization and Art Epochs (2) Tu W 9	101 Arch		Schroff
142a	142b	142c	$1	Decorative Design (2) Tu 11, M 1-4	101 Arch		Schroff
143a	143b	143c	$1	Decorative Design—Advanced (2) **	105 Arch		Schroff
....	145	....	....	Art Anatomy F 1	106 Art		Fairbanks
24a	24b	24c	$1	Elementary Modeling (1) Tu 1-4, or Th 7-10 p. m.	106 Art		Fairbanks
144a	144b	143c	$2	Adv. Modeling (By consent of Instr) (1 to 5) M Tu W Th F 1-4	106 Art		Fairbanks
30a	30b	30c	....	Architectural Ornament (1) **	106 Art		Fairbanks
146a	146b	146c	....	Architectural Ornament—Advanced (1) **	107 Arch		Fairbanks
147a	147b	147c	....	Sculpture Theory (1) **	107 Arch		Fairbanks
148a	148b	148c	....	Advanced Sculpture Theory (1) **	106 Art		Fairbanks
149a	149b	149c	$3	Artistic Photography (1) **			

NORMAL ART

53a	53b	53c	....	Instrumental Drawing (1) Th 1-4	101 Soc		Adams
91a	91b	91c	$3	Design—First Year (2) M W 1-4	Art		Kerns
92a	92b	92c	$3	Design—Second Year (2) Tu Th 1-4	Art		Kerns
93a	93b	93c	$1	Representation (1) F 1-4	Art		Avakian
191a	191b	191c	$1	Pedagogy of Art (2) W F 11	Art		Kerns
192a	....	....	$3	Applied Design, Book binding (2) M W 1-4	Art		Avakian
....	192b	192c	$3	Applied Design, Pottery (2) M W 1-4	Art		Avakian
193a	193b	193c	$3	Applied Design, Weaving (2) Tu Th 1-4	Art		Avakian
				Home Decoration (See Household Arts Department)			
				Textiles and Dress Design (See Household Arts Department)			

BOTANY

Course Number Fall	Winter	Spring	Fee	Subject, Credit, Days and Hour	Room	Bldg.	Instructor
1a	1b	1c	$2	Gen. Botany (4) Tu W Th 8	107	Deady	Sweetser
				(Lab. Tu Th F p. m. 1-4 or Sat 9-12)	303	Deady	Sanborn
108	....	....	$2	Systematic Botany (3) M Th 9 (Lab. for 108 Tu 1-4)	303	Deady	Sweetser and Sanborn
	112	....	....	Pedagogical Botany (3) M Th 9	303	Deady	Sweetser
....	....	109	$2	Field Botany (3) M Th 9 (Lab. for 109 Tu 1-4)	303	Deady	Sweetser
11	....	....	....	Sanitation (3) M W F 11	105	Deady	Sweetser
103a	103b	103c	$5	Plant Histology (4) Tu Th 10 (Lab. for 103 M W 1-4)	229	Deady	Sanborn
....	....	104	$2	Economic Botany (3) M W 10 (Lab for 104 W 1-4)	303	Deady	Sweetser
....	105	....	$3	Plant Physiology (4)	303	Deady	Sweetser
....	106	107	$5	Bacteriology (4) M W 11 (Lab. for 106 and 107 Tu and Th)	105	Deady	Sweetser
117	....	....	$5	Advanced Bacteriology (2) (Lab. Tu Th 1-4)	305	Deady	Sweetser
110a	110b	110c	$2	Botany Research **		Deady	Sweetser
114a	114b	114c	$2	Research in Systematic **		Deady	Sweetser
213a	213b	213c	$2	Botanical Problem **		Deady	Sweetser
214a	214b	215c	$5	Bacteriological Problem **		Deady	Sweetser
215a	215b	215c	....	Graduate Seminar		Deady	Sweetser

BUSINESS ADMINISTRATION

....	2a	2b	.50	Trade Routes & World Ports (4) M Tu W Th 9	207	Com	Rutter, Lomax
....	2a	2b	.50	Trade Routes & World Ports (4) M Tu W Th 1	208	Com	Rutter, Lomax
8a	8b	8c	.50	Principles of Accounting (4) Lecture Tu 11, 3	105	Com	McDougle, Janney, Bolitho
				Section I Quiz Tu Th 8 (Lab. M W 8-10)	207	Com	McDougle, Janney, Bolitho
				Section II Quiz M W 8 (Lab Tu Th 8-10)	207	Com	McDougle, Janney, Bolitho
				Section III Quiz Tu Th 1 (Lab. M W 1-3)	207	Com	McDougle, Janney, Bolitho
				Section IV Quiz M W 1 (Lab. Tu Th 1-3)	207	Com	McDougle, Janney, Bolitho
10	....	....	.50	Elementary Cost Accounting (5) M Tu W Th F 10	206	Com	Janney
....	11	....	.50	Advanced Accounting Principles (5) M Tu W Th F 10	206	Com	Janney
....	11	....	.50	Advanced Accounting Principles (5) M Tu W Th F 1	105	Com	McDougle
....	....	12	.50	Principles of Business (4) Tu W Th F 9	7	Com	Robbins
....	....	12	.50	Principles of Business (4) M Tu W Th 1	106	Com	Folts
....	....	12	.50	Principles of Business (4) M Tu W Th 2	106	Com	Folts
116	116	....	.50	Banking Procedure and Practice (4) M Tu W Th 8	208	Com	Folts
....	....	117	.50	Investment Banking (3) Tu W Th 8	208	Com	Folts
181a	181b	....	....	Advanced Accounting Theory and Practice (5) M Tu W Th F 8	101	Com	McDougle
....	....	184	.50	Accounting Systems (5) M Tu W Th F 8	101	Com	McDougle
127a	127b	127c	.50	Salesmanship (4) Tu W Th F 8	7	Com	Whitaker
164a	164b	164c	.50	Principles Foreign Trade (4) Tu W Th F 8	106	Com	Rutter
113	113	113	.50	Business Finance (5) M Tu W Th F 9	208	Com	Hogan
....	....	120	.50	Foreign ....Banking (3) M Tu Th 9	106	Com	Folts
132	....	....	.50	Office Organization & Management (4) Tu W Th F 9	106	Com	McManus
....	132	132	.50	Office Organization & Management (4) Tu W Th F 9	7	Com	McManus
144	....	....	....	Law Contracts (4) Tu W Th F 9	7	Com	Decker

169a	169b	169c	1.50	Advanced Work in Foreign Trade (4) Tu W Th F 9	200	Com		Rutter
183a	183b	183c	1.50	Auditing (5) M Tu W Th F 9	101	Com		Bolitho
109	109	....	.50	Labor Management (4) M Tu W Th 9				Robbins
114a	114b	....	.50	Investments (4) M Tu W Th 10	207	Com		Folts
....	....	115	.50	Brokerage (4) M Tu W Th 10	207	Com		Folts
....	146	....	....	Law of Agency (2) Tu Th 10		Oregon		R. J. Miller
....	....	148	....	Law-Bills & Notes (3) M W F 10		Oregon		Decker
....	149	....	....	Law of Competition (3) M W F 10		Oregon		Warner
180a	180b	....	.50	Accounting Theory & Practice (5) M Tu W Th F 10	101	Com		McDougle
....	....	182	.50	Advanced Cost Accounting (5) M Tu W Th F 10	101	Com		McDougle
....	....	185	.50	Ethics of Accountant (2) Tu Th 10	208	Com		Bolitho
201a	201b	....	.50	Income Tax (5) M Tu W Th F 10	208	Com		Bolitho
....	....	202	.50	Report Writing (3) M W F 10	208	Com		Bolitho
129a	129b	....	.50	Elements of Business Advertising (3) M Tu W 11	107	Com		Whitaker
....	....	136a	....	Traffic Management (4) M Tu W F 11	208	Com		Hogan
138a	....	....	....	Fire Insurance (4) M Tu W F 11	208	Com		Hogan
....	138b	....	....	Life Insurance (4) M Tu W F 11	208	Com		Hogan
200a	200b	200c	.50	C P A Problems (4) M Tu W F 11	101	Com		Bolitho
....	....	113	.50	Business Finance (4) M Tu W Th 1	7	Com		Hogan
122a	122b	122c	.50	Merchandising (4) M Tu W Th 1	107	Com		Whitaker
134	....	....	.50	Credits & Collections (4) M Tu W Th 1	208	Com		Hogan
145	....	....	....	Sales of Personal Property (2) ** 1		Oregon		Hale
167	....	....	.50	Resources Pacific Northwest (2) Tu Th 1	7	Com		Lomax
....	....	126	.50	Purchasing (3) M W F 2	208	Com		Hogan
142	....	....	.50	Business Statistics (3) Tu W Th 2 (Lab. 142 F 2)	101	Com		Rutter
119a	119b	119c	.50	Adv. Investments (3) **	101	Com		Folts
....	....	128	.50	Adv. Problems in Salesmanship **				Whitaker
....	....	129c	.50	Adv. Problems in Business Advertising **	107	Com		Whitaker
....	....	130	.50	Adv. Prob. in Merchandising **	107	Com		Whitaker
165a	165b	165c	.50	Technique Foreign Trade (4) Tu W Th F **	207	Com		Lomax
190a	190b	190c	....	Seminar in Commerce. For seniors and graduates (2) **	200	Com		Robbins and Staff

CHEMISTRY

1a	1b	1c	$4	General Chemistry (5) M W F 10	101	McClure		Shinn
				Gen. Chem. Quiz Sections T at 11, W at 8, Th at 10, F at 9	101	McClure		Tanner
				(Lab. for 1 Tu W Th or F 1-4)	101	McClure		Tanner
3a	3b	3c	$5	Analytical (4) W 9 (Lab. for 3 M Tu W 1-4)	101	McClure		Whitman
4a	4b	....	$4	Org. Chem. Med. Stu. (4) M Tu Th 9 (Lab. for 4 M Tu or Th 1-4)	101	McClure		Williams
7	....	....	$4	Physical Chem. for Med. Stud. (4) Tu Th 10, F 9 (Lab. 1-4)	101	McClure		Shinn
105a	105b	105c	$4	Organic Chemistry (4) M W F 11 (Lab. for 105 Th 1-4)	101	McClure		Williams
112a	112b	112c	$4	Adv. Anal. Chem. (3 or 4) Th 1 (Lab. for 112 M Tu W 1-4)	101	McClure		Whitman
116a	116b	116c	$4	Physical Chemistry (4) Tu Th 10, F 9 (Lab. **)	101	McClure		Shinn
106a	106b	106c	....	Advanced Inorganic Chem. (2) **	101	McClure		Tanner
201a	201b	201c	$4	Research and Thesis **	101	McClure		Staff
205a	205b	205c	....	Seminar (1) **	101	McClure		Staff

DRAMA AND THE SPEECH ARTS

Course Number Fall	Winter	Spring	Fee	Subject, Credit, Days and Hour	Room	Bldg.	Instructor
1a	1b	1c	$2	Dramatic Interpretation (1) M W F 10		Guild Theatre	Banfield
51a	51b	51c	2.50	Dr. Int. Sec. 1 (4) M Tu W F 11 (Lab. by arrangement)	203	Soc	Banfield
51a	51b	51c	2.50	Dr. Int. Sec. 2 (4) M Tu W Th 1 (Lab. by arrangement)		Guild Theatre	Banfield
52a	52b	....	....	Technique of the Speaking Voice (3) M W F 1		Guild Theatre	Reddie
101a	101b	....	2.50	Teachers' Course in Play Producing (2) Tu Th 10		Guild Theatre	Banfield
....	....	102	2.50	Dramatization (2) Tu Th 1	203	Soc	Reddie
130a	103b	103c	2.50	Stagecraft (2) F 2-4	203	Soc	Reddie
151a	151b	151c	$5	The Company (5) M Tu W Th 2-4 (Lab. by arrangement)		Guild Theatre	Reddie, Banfield
151a	151b	151c	$5	The Company, Advanced (5) M Tu W Th 2-4 (Lab. by arr't)	203	Soc	Reddie and Banfield
201a	201b	201c	$5	Interpretation of Shakespeare (3) (Hours to be arranged)		Guild Theatre	Reddie
....	....	202	....	Advanced Technique of Sp. Voice (3) M W F 1	203	Soc	Reddie
203a	203b	203c	....	Seminar (2) (Hours to be arranged)	203	Soc	Reddie and Banfield

ECONOMICS

1	1	....	$1	Economic History (4) M Tu W Th 8	107	Com	Hoeber
3a	3b	....	....	Principles of Economics (4) Tu W Th F 8	105	Com	Gilbert
....	....	4	....	Business Organization (4) Tu W Th F 8	107	Com	Cameron
....	....	113	....	Money Banking and Crises (5) M Tu W Th F 8	105	Com	Gilbert
3a	3b	....	....	Principles of Economics (4) Tu W Th F 9	105	Com	R. M. Miller
123	....	....	....	Trusts and Industrial Combinations (5) M Tu W Th F 9	107	Com	Cameron
....	124	....	....	Natural Monopolies (5) M Tu W Th F 9	107	Com	Cameron
....	....	125	....	Modern Ind. Tendencies (5) M Tu W Th F 9	107	Com	Cameron
....	163	....	....	Ocean Transportation (5) M Tu W Th F 9	106	Com	Crockatt
....	....	162	....	International Trade (5) M Tu W Th F 9	105	Com	Crockatt
1	....	....	$1	Economic History (4) M Tu W F 10	4	Com	Hoeber
1	....	....	$1	Economic History (4) M Tu W F 10	107	Com	Cameron
....	115a	115b	....	History of Economic Thought (3) M W F 10	107	Com	Cameron
3a	3b	....	....	Principles of Economics (4) Tu W Th F 10	105	Com	Gilbert
....	....	113	....	Money Banking and Crises (5) M Tu W Th F 10	105	Com	Gilbert
....	135	....	....	Railway Rate Regulation (5) M Tu W Th F 10	4	Com	Crockatt
....	....	105	....	Labor Problems (4) Tu W Th F 10	7	Com	R. M. Miller
118a	118b	....	....	Public Finance (4) M Tu W F 11	106	Com	Gilbert
....	....	141	....	Conservation of Natural Resources (3) M W F 11	106	Com	Gilbert
106	....	....	....	Organized Labor (4) M Tu W F 11	7	Com	R. M. Miller
....	107	....	....	Labor Legislation (4) M Tu W F 11	7	Com	R. M. Miller
....	....	108	....	Social Insurance (4) M Tu W F 11	7	Com	R. M. Miller
3a	3b	....	....	Principles of Economics (4) Tu W Th F 2	107	Com	R. M. Miller
1	....	....	$1	Economic History (4) M Tu W Th 2	105	Com	Cameron
....	1	1	$1	Economic History (4) M Tu W Th 2	105	Com	Crockatt
201	202	203	....	Research **			Gilbert

EDUCATION

53	....	....	....	Educational Psychology (3) Tu W Th 8	3	Educ	DeBusk
....	51	....	....	Introduction to Education (3) Tu W Th 8	3	Educ	Gregory
....	....	52	....	History of Education (3) Tu W Th 8	3	Educ	Sheldon
51	....	....	....	Introduction to Education (3) M W F 10	3	Educ	Gregory
....	53	....	....	Educational Psychology (3) M W F 10	3	Educ	DeBusk
....	....	52	....	History of Education (3) M W F 10	3	Educ	Sheldon
106	....	....	....	Observation of Teaching (3) Tu W Th 8	10	Educ	Douglass
....	106	106	....	Observation of Teaching (3) **	10	Educ	Douglass
151a	151b	....	....	History of American Education (3) Tu W Th 8	2	Educ	Sheldon
....	....	151c	....	History of American Education (3) **	2	Educ	Sheldon
163	....	....	....	Mental Tests (3) M Tu Th 9	2	Educ	DeBusk
....	164	....	....	Exceptional Children (3) M Tu Th 9	2	Educ	DeBusk
....	....	167	....	Hygiene of Learning (3) M Tu Th 9	2	Educ	DeBusk
153	....	....	....	Social Education (4) M Tu W Th 10	10	Educ	Sheldon
162	....	....	....	Child Hygiene (3) M W F 10	2	Educ	DeBusk
....	....	161	....	Psychology of Childhood (3) M W F 10	2	Educ	DeBusk
172	....	....	....	Educ. Tests and Measurements (4) M Tu W F 11	10	Educ	Gregory
105	....	....	....	High School Problems (3) M W F 2	2	Educ	Gregory
107a	107b	....	....	Supervised Teaching (3-5) **			Douglass
....	107a	107b	....	Supervised Teaching (3-5) **			Douglass
....	107x	....	....	Educational Literature **			Douglass
155a	155b	155c	....	Educ. System of Oregon (2) **	10	Educ	Sheldon
206a	206b	206c	....	Res. Prob. in Elem. Educ. (2) **	2	Educ	Gregory
207a	207b	207c	....	Res. Educ. Hygiene (2) Tu 3-5	10	Educ	DeBusk
205a	205b	205c	....	Research in Sec. Ed. (2) **	9	Educ	Douglass
156a	156b	156c	....	Education Seminar (1) Alter. Tu **	9	Educ	Staff
....	166	....	....	The School Plant (3) **		Educ	DeBusk

HISTORY

1a	1b	1c	.50	World History (3) M W F 10	108	Villard	Griffin
				Quiz sections for Hist 1 **		Com	Griffin
61a	61b	61c	....	England & British Empire (4) M Tu W Th 8	8	Com	Barnes
141a	141b	141c	....	Modern European History (4) M Tu W F 9	4	Com	Barnes
162a	162b	....	....	English Constitutional History (3) M W F 9	8	Com	R. C. Clark
....	....	172	....	American Foreign Relations (4) M Tu Th F 9	8	Com	R. C. Clark
71a	71b	71c	....	American History (4) M Tu W F 10	8	Com	R. C. Clark
191a	191b	191c	....	Pacific Orient (4) M Tu W F 11	4	Com	Griffin
114a	114b	114c	....	The History of Rome (3) M W F 1	107	Oregon	Dunn
....	....	51	....	Europe of the Last Fifty Years (5) M Tu W Th F 2	8	Com	Barnes
102	....	....	....	Teaching of History (3) M W 3-4:30	4	Com	R. C. Clark
241	....	....	....	Seminar; Forerunners of French Revolution (3) Tu F 3-4:30	4	Com	Barnes
....	276a	276b	....	Seminar in Oregon History (3) M W 3-4:30	4	Com	R. C. Clark
....	101	....	....	History of History (3) Tu F 3-4:30	4	Com	Barnes

ENGLISH

Course Number Fall	Winter	Spring	Fee	Subject, Credit, Days and Hour	Room	Bldg.	Instructor
				ENGLISH LITERATURE			
99a	....	....	$2	World Literature (2) Tu Th 10	108	Villard	Howe
1	2	3	....	Outlines (4) M W Th F 2	107	Villard	Watson
....	2	3	....	Outlines (4) M W Th F 10	107	Villard	Norma Solve
....	....	25	....	Wordsworth (3) M W F 10	108	Villard	Howe
50	51	52	....	Shakespeare (3) M Tu Th 9	107	Villard	Watson
60	....	....	....	History of Eng. Language (3) Tu W Th 8	104	Villard	Perkins
101	....	....	....	English Poetry (3) M W F 1	108	Villard	Howe
....	110	....	....	Shelley (3) M W F 10	108	Villard	Howe
....	....	115	....	Browning (3) Tu W Th 8	108	Villard	Norma Solve
....	120	....	....	Chaucer (3) Tu W Th 8	104	Villard	Perkins
....	....	128	....	Classic Poets (3) Tu W Th 8	104	Villard	Perkins
130	....	....	....	Romantic Poets (3) Tu W Th 8	108	Villard	Norma Solve
....	135	....	....	Victorian Poets (3) Tu W Th 8	108	Villard	Norma Solve
140	141	142	....	English Drama (3) M W F 11	108	Villard	Norma Solve
145	....	....	....	Ruskin (3) M W F 1	106	Villard	Norma Solve
155	156	157	....	Living English Writers (3) Tu W Th 8	107	Villard	Howe
....	160	....	....	Ibsen (3) M W F 1	107	Villard	Howe
170b	170c	....	....	History of Eng. Literature (3) M Tu Th 9	108	Villard	Norma Solve
....	....	170a	....	History of English Literature (3) M Tu Th 9	108	Villard	Perkins
....	....	175	....	Teaching of English Literature (5) M Tu W Th F 1	106	Villard	Howe and Solve
210	211	212	....	Phil. Foundations of Eng. Literature (3) M W F 10	106	Villard	Watson
185	186	187	....	English Novel (3) M W F 11	107	Villard	Watson
....	205	206	....	Seminar (3) M W F 3	107	Villard	Howe
				RHETORIC AND AMERICAN LITERATURE			
....	99b	99c	$2	World Literature (2) Tu Th 10	108	Villard	Bates
1a	1b	1c	....	English Composition (3) Lecture F 8, 9 or 11 or Th 10	105	Oregon	Staff
				(Lab. two periods any p. m. 1-3 or 3-5)	204	Soc	Staff
....	1a	1b	....	English Composition (3) Lecture ** (Lab. as above)			
....	....	1a	....	English Composition (3) Lecture ** (Lab. as above)			
9a	9b	9c	....	Business English (3) Tu W Th 8	5	Com.	Thorpe, Solve
9a	9b	9c	....	Business English (3) M W F 10	5	Com.	Thorpe, Solve
9a	9b	9c	....	Bnsiness English (3) M W F 1	5	Com.	Thorpe, Solve
9a	9b	9c	....	Business English (3) M W F 2	5	Com.	Thorpe, Solve
15a	15b	15c	....	Playwriting (2) M F 8	101	Villard	Solve
65a	65b	65c	....	Argumentation (3) M Tu Th 9	5	Com	Thorpe
11a	11b	11c	.50	Short Story Writing (3) M W F 10	4	Journ	Thacher
60a	60b	60c	....	Extempore Speaking (2) Tu Th 10	5	Com	Thorpe
5a	5b	5c	....	Narration (3) M W F 1	101	Villard	Turney
59a	59b	59c	....	American Literature (3) M W F 1	103	Villard	Burgess

4a	4b	4c	....	Magazine Writing (2) Tu Th 2	105	Villard	Burgess
16a	16b	16c	....	Versification (2) Tu Th 2	101	Villard	Solve
171a	171b	171c	....	Criticism (2) W F 9	103	Villard	Collins
182a	182b	182c	....	American Drama (3) M Tu Th 9	101	Villard	Turney
190a	190b	190c	....	Contemporary American Lit. (3) M Tu Th 9	103	Villard	Collins
185a	185b	185c	....	Principles of Style (2) Tu Th 10	103	Villard	Collins
111a	111b	111c	.50	Adv. Short Story (2) M W 11	4	Journ	Thacher
114a	114b	114c	....	Advanced Writing (2) Tu F 11	4	Journ	Thacher
115a	115b	115c	....	Technique of Drama (3) M W F 2	101	Villard	Bates
152a	152b	....	....	Teachers' Course (2) Tu Th 1	101	Villard	Turney
166	....	....	....	Emerson (3) M W F 3	103	Villard	Burgess
....	176	....	....	Walt Whitman (3) M W F 3	103	Villard	Burgess
....	....	175	....	Poe (3) M W F 3	103	Villard	Burgess
204a	204b	204c	....	Translation (3) M W F 3	101	Villard	Bates
104a	104b	104c	....	Advanced Magazine Writing (2) Tu Th 4	103	Villard	Burgess
202a	202b	202c	....	Seminar (3) M W F 4	101	Villard	Bates

GERMAN

3a	3b	3c	....	Advanced German (Second year) (4) M Tu W Th 8	109	Oregon	Thorstenberg
107	....	....	....	Heine's Prose (3) Tu W Th 8	106	Oregon	Schmidt
....	105	....	....	Goethe's Faust (3) Tu W Th 8	106	Oregon	Schmidt
....	....	104	....	German Poetry (3) Tu W Th 8	106	Oregon	Schmidt
113a	113b	113c	....	History of German Literature in English (2) M F 8	106	Oregon	Schmidt
1a	1b	1c	....	Elem. German (5) M Tu W Th F 9	106	Oregon	Schmidt
1a	1b	1c	....	Elem. German (5) M Tu W Th F 10	109	Oregon	Thorstenberg
3a	3b	3c	....	Adv. German (Second year) (4) M Tu W Th 10	106	Oregon	Schmidt
111a	111b	111c	....	Adv. German Composition (2) Tu Th 10	107	Oregon	Schmidt
204a	204b	204c	....	History of German Lit. (3) F (other hours to be arr.) 10	106	Oregon	Schmidt
4a	4b	4c	....	Scientific German (3) M W F 11	109	Oregon	Thorstenberg
114a	114b	114c	....	German Novel and Class German (3) M W F 11	106	Oregon	Schmidt
201	....	....	....	Middle High German (3) Tu ** 11	106	Oregon	Schmidt
....	202a	202b	....	Old High German (3) Tu ** 11	106	Oregon	Schmidt
112a	112b	112c	....	German Conversation (2) Tu Th 1	109	Oregon	Schmidt
31a	31b	31c	....	Elem. Swedish (3) M W F 2	109	Oregon	Thorstenberg
123a	123b	123c	....	Scandinavian Literature (3) **		Oregon	Thorstenberg
124a	124b	124c	....	Advanced Scandinavian (3) **		Oregon	Thorstenberg
....	222	....	....	Old Icelandic (3) **		Oregon	Thorstenberg

GREEK

103a	....	....	....	Greek Mythology (2) M F 8	107	Oregon	H. A. Clark
....	103b	....	....	Greek Art (2) M F 8	107	Oregon	H. A. Clark
....	....	103c	....	Greek Life and Literature (2) M F 8	107	Oregon	H. A. Clark
1a	1b	1c	....	Beg. Greek (5) M Tu W Th F 9	111	Johnson	Straub
50a	50b	50c	....	Xenophon—Homer (4) Tu W Th F 10	111	Johnson	Straub
100a	100b	100c	....	Greek Testament (4) M Tu W F 11	111	Johnson	Straub

GEOLOGY

Course Number Fall	Winter	Spring	Fee	Subject, Credit, Days and Hour	Room	Bldg.	Instructor
1a	1b	1c	$1	General Geology (4) M Tu Th 9	3	Johnson	Hodge and Packard
				(Lab. for 1a, b, c Tu or W 1-4)	110	Johnson	Assistant
4a	4b	4c	$3	Minerology (4) W F 9	4	Johnson	Hodge
				(Lab. for 4a, b, c M W 1-4)	5	Johnson	Hodge
....	8	....	$1	Development and History of Life (4) M W F 10	3	Johnson	Packard
				(Lab. for 8 ** 1-4)	109	Johnson	Packard
....	....	9	....	Geologic History of Man (3) M W F 10	3	Johnson	Packard
....	....	101	....	Structural Geology (2) M W 10	5	Johnson	Hodge
102a	102b	102c	$1	Economic Geology (3) Tu Th 10	4	Johnson	Hodge
				(Lab. for 102a, b, c M 1-4)	109	Johnson	Hodge
....	....	103	....	Oil Geology (2)	5	Johnson	Hodge
....	....	107	$1	Field Geology (2) Sat 10	4	Johnson	Hodge
....	....	108a	$1	Invertebrate Paleontology (4) Tu Th 10 (Lab. Tu W 1-4)	109	Johnson	Packard
111	....	....	....	Stratigraphy (4) M W F 10 (Lab. W 1-4)	109	Johnson	Packard
....	113	....	....	Coal (2)	109	Johnson	Hodge
....	116	....	$1	Petrology (4) M W F 10	4	Johnson	Hodge
....	118	....	$1	Tertiary Faunas (4) Tu Th 10 (Lab. **)	109	Johnson	Packard
....	120	....	....	Geologic History of No. America (3) M W F 11	109	Johnson	Packard
....	....	121	....	Geologic History of Pac. Coast (3) M W F 11	109	Johnson	Packard
201a	201b	201c	....	Geology Seminar (1) Tu 11	109	Johnson	Dept. Staff
....	....	2	$1	Dynamic Geology (4) **	4	Johnson	Hodge
106a	....	....	$1	Optical Minerology (3) **	109	Johnson	Hodge
....	106b	106c	$1	Petrography (3) **	4	Johnson	Hodge
				(Lab. M W 1-4)	4	Johnson	Hodge
202a	202b	202c	....	Advanced Geology **	4	Johnson	Dept. Staff
208a	208b	208c	....	Advanced Paleontology **	109	Johnson	Packard

HOUSEHOLD ARTS

....	35	35	$2	Home Nursing (3) Tu W Th 8 (Lab. as arranged)	H. A.		Pattison, Robertson
....	135	....	$2	Care of Children (3) Tu W Th 8 (Lab. as arranged)	H. A.		Pattison, Robertson
11a	11b	....	$2	Clothing (4) M W F 9 (Lab. Tu Th 9-11)	H. A.		Hauck
....	....	11c	$2	Clothing Problems (3) W F 9 (Lab. as arranged)	H. A.		Hauck
21a	21b	....	$2	Dress Design (3) M Tu Th 9 (Lab. Tu Th 9-11)	Art		Avakian
....	....	21c	$2	Dress Design Problems (3) Tu Th 9 (Lab. as arranged)	Art & H. A.		Avakian, Hauck
....	....	31	$2	Textiles (3) M Tu Th 9 (Lab. Tu Th 10-11)	Art & H. A.		Hauck
5a	5b	5c	$5	Foods (3) Tu Th 10 (Lab. M Th 1-3, F 1-2)	H. A.		Tingle, Pattison
....	101	....	$5	Nutrition Problems (3) Tu Th 10 (Lab. as arranged)	H. A.		Pattison
....	....	100	$5	Nutrition (4) Tu W 11 (Lab. as arranged)	H. A.		Pattison
108a	108b	....	$2	Home Decoration (3) M Tu 11 (Lab. F 1-4)	Art		Kerns
....	....	108c	$2	Home Decoration Problems (3) M Tu 11 (Lab. as arranged)	Art		Kerns
....	110	111	$2	Household Management (3) M Tu 11 (Lab. F 1-4)	H. A.		Tingle, Pattison, Hauck
1a	1b	1c	$2	Clothing (3) M Tu W Th 1-3	H. A.		Hauck
15a	15b	....	$5	Foods (3) Tu Th 1-2 (Lab. M W F 10-12)	H. A.		Tingle, Pattison

15c	....	15c	$2	Food Problems (3) Conferences and Lab. as arranged)	H. A.		Tingle
25	25	25	$2	Elementary Food Economics (3) Tu Th F 2-3 (Lab. Tu Th 1-2)	H. A.		Pattison, Tingle
102a	102b	....	$2	Food Preparation for Soc. Workers (3) (To be arranged)	H. A.		Tingle, Datson
....	....	112	....	Household Management (3) (To be arranged)	Prac.	Cot	
....	175a	175b	....	Home Economics Journalism (2) (To be arranged)	Jour. & H. A.		Tingle, Allen

JOURNALISM

1a	1b	1c	.50	Elementary Newswriting (2) W F 9	4	Jour	Turnbull
102a	102b	102c	.50	Reporting and Copyreading (4) Tu W Th 8	4	Jour	Turnbull
				(Copyreading Lab. Any p. m.)	10	Jour	Turnbull
103a	103b	103c	.50	Publishing (4) M Tu Th 9	4	Jour	Allen, Hall
				(Lab. for Publishing W)	4	McClure	Hall
104a	104b	104c	.50	Editing (5) M Tu W Th F 10	8	Jour	Allen
....	106a	106b	.50	Advertising (3) M Tu Th 9		Jour	Thacher
				(Lab. **)	4	McClure	Thacher
123a	123b	123c	.50	Advertising Campaigning (2) Tu Th 10	4	Jour	Thacher
121a	121b	121c	.50	Interpretative News and Trade Journalism (3) M W F 11	3	Johnson	Dyment
105a	105b	105c	$1	Law of the Press (1) W 9		Oregon	Hale

HYGIENE AND PHYSICAL EDUCATION

PHYSICAL EDUCATION FOR MEN

51a	51b	51c	1.25	Elementary Physical Education (1) Sec. I, M W F 9; Sec. II, Tu Th F 9; Sec. III, M Tu Th 9; Sec. IV, M W F 2; Sec. V, M W F 3; Sec. VI, M W F 4; Sec. VII, Tu Th F 4; Sec. VIII, M Tu Th 4	Men's	Gym	
52a	52b	52c	1.25	Advanced Physical Education (1) Sec. I, M W F 10; Sec. II, Tu Th F 10; Sec. III, Tu Th F 11; Sec. IV, M W F 3; Sec. V, M Tu Th 3; Sec VI, M W F 4; Sec. VII, Tu Th F 4	Men's	Gym	
53a	53b	53c	1.25	Restricted Exercise (1) Sec. I, M W F 11; Sec. II, M W F 2	Men's	Gym	Scott
....	171	....	....	Applied Anatomy (4) M Tu Th F 8	101	McClure	Barnes
....	....	172	....	Kinesiology (5) M Tu W Th F 8	Men's	Gym	Barnes
54	54	54	....	Individual Hygiene (3) M Tu Th 9	107	Deady	Bovard
....	177	....	....	Physiology of Exercise (3) M W F 11	2	Oregon	Bovard
71	71	....	....	General Hygiene (3) M W F 1	105	Deady	Bovard
....	....	72	....	Inter group Hygiene (3) M W F 1	105	Deady	Bovard
....	153	....	....	Theory & Practice Correct Work (3) M W F 1	Men's	Gym	Scott
....	....	154	....	Playground Activities (3) M W F 1	Men's	Gym	Scott
155	....	....	....	Physical Diagnosis (3) M W F 1	Men's	Gym	Scott
151	....	....	1.25	Football Coaching (2) Tu Th 2	Men's	Gym	Huntington
....	151	....	1.25	Basketball Coaching (2) Tu Th 2	Men's	Gym	Bohler
....	....	151	1.25	Baseball Coaching (2) Tu Th 2	Men's	Gym	Bohler
....	....	151	1.25	Track Coaching (2) Tu Th 2	Men's	Gym	Hayward
....	....	55	....	Dancing—Athletic, etc. (½) Tu Th 3	Men's	Gym	Bohler
152a	152b	152c	1.25	Physical Education Technique (1) M Tu W Th 4	Men's	Gym	Scott
173a	....	173c	....	Playground Management (3) W F 1			
....	173b	....	....	Playground Management (3) Tu Th 10			
....	176	....	....	History of Physical Education (2) W F 9 **			

Course Number Fall	Winter	Spring	Fee	Subject, Credit, Days and Hour	Room	Bldg.	Instructor
1a	1b	....	1.25	Elem. Physical Education (1) M W F 10	Gym	Wom	Winslow
....	....	1c	1.25	Elem. Physical Education Sports (1) M Tu Th 9	Boathouse		Waterman
....	....	1c	1.25	Elem. Physical Education Sports (1) M W F 11	Gym	Wom	Waterman
1a	....	1b	1.25	Elem. Physical Education Swimming (1) M W F 11	Pool	Wom	Winslow
....	....	1c	1.25	Elem. Physical Education Swimming (1) M W F 2	Pool	Wom	Winslow
1a	1b	1c	1.25	Elem. Physical Education (1) M W F 3	Gym	Wom	Winslow
1a	1b	1c	1.25	Elem. Physical Education (1) M W F 4	Gym	Wom	Manchester
....	....	1c	1.25	Elem. Physical Education (1) M Tu Th 4	East	Room	Winslow
....	1b	1c	1.25	Elem. Physical Education Sports (1) M W F 5	Gym	Wom	Waterman
2a	2b	2c	1.25	Adv. Physical Education (1) M W F 10	Gym	Wom	Waterman
2a	....	2b	1.25	Adv. Physical Education Sports (1) M Tu Th 9	Boathouse		Waterman
....	....	2c	1.25	Adv. Physical Education Sports (1) M W F 11	Gym	Wom	Waterman
2a	....	2b	1.25	Adv. Physical Education Swimming (1) M W F 11	Pool	Wom	Winslow
....	....	2c	1.25	Adv. Physical Education Swimming (1) M W F 2	Pool	Wom	Winslow
2a	2b	2c	1.25	Adv. Physical Education (1) M W F 3	Open	Air	Waterman
2a	2b	2c	1.25	Adv. Physical Education (1) M W F 4	Gym	Wom	Waterman
2a	2b	2c	1.25	Adv. Physical Education Sports (1) M W F 5	Gym	Wom	Waterman
3a	3b	3c	1.25	Corrective Gym (5 Sections) (1) M Tu Th 9	206	Wom	Thomson
3a	3b	3c	1.25	Corrective Gym (1) M W F 10	206	Wom	Thomson
3a	3b	3c	1.25	Corrective Gym (1) M W F 11	206	Wom	Thomson
3a	3b	3c	1.25	Corrective Gym (1) M W F 2	206	Wom	Thomson
3a	3b	3c	1.25	Corrective Gym (1) M W F 3	206	Wom	Thomson
3a	3b	3c	1.25	Corrective Clinic (1) M W F 4	206	Wom	Thomson
4a	4b	....	1.25	Folk and National Dancing (½) W F 11	East	Room	Winslow
7	7	7	....	Personal Hygiene (3) M W F 11	121	Wom	Alden
7	7	....	....	Personal Hygiene (3) M W F 3	121	Wom	Alden
101a	101b	....	1.25	Advanced Gymnastics (1) M Tu Th 9	Gym	Wom	Waterman
102a	102b	102c	1.25	Playground Supervision (3) Sat 9-11	Gym	Wom	Alden
103a	103b	....	1.25	Advanced Dancing (½) M W F 2	East	Room	Winslow
....	....	103c	1.25	Advanced Dancing (½) M Tu Th 9	East	Room	Winslow
104	....	....	....	Technique of Teaching (1) Tu Th 2	Gym	Wom	Waterman
....	105a	....	....	Normal Instruction (1) Tu Th 2	Gym	Wom	Waterman
....	....	105b	....	Normal Instruction (1) Tu Th 1	East	Room	Winslow
....	....	107	....	Anthropometry (2) W F 9	212	Wom	Thomson
108a	108b	108c	....	Theory and Practice of Corrective Gymnastics (3) M W F 3	207	Wom	Thomson
175	....	....	....	Theory and Practice of Physical Education (3) M W F 10	121	Wom	Alden
....	110a	110b	....	Theory and Practice of Physical Education (3) M W F 10	121	Wom	Alden
....	....	172	....	Kinesiology (5) M Tu W Th F 8	121	Wom	Waterman
173a	....	173c	....	Playground Management and Activities-Practice (3) W F 1	121	Wom	Manchester
....	173b	....	....	Playground Management Tu Th 10	121	Wom	Alden
....	176	....	....	History of Physical Education (2) W F 9	207	Wom	Manchester

LATIN

21a	21b	21c	....	The Augustan Age (3) Tu W Th 8	107 Oregon	Dunn
205a	205b	205c	....	The Reign of Nero (3) Tu W Th 8	111 Johnson	Clark
1a	1b	1c	....	Beginning Latin and Caesar (5) M Tu W Th F 9	107 Oregon	Dunn
....	....	144	....	Graeco-Roman Inheritance (3) M Tu Th 10	107 Oregon	Clark
141	....	....	....	The Private Life of the Romans (3) M W F 10	107 Oregon	Dunn
22a	22b	22c	....	The Silver Age (3) M W F 11	107 Oregon	Clark
2a	2b	2c	....	Cicero's Orations and Vergil's Aeneid (4) M Tu W Th 1	107 Oregon	Dunn
23a	23b	23c	....	The Drama (3) M W F 2	107 Oregon	Dunn
204a	204b	204c	....	The Reign of Trajan (3) **	107 Oregon	Clark
251a	251b	251c	....	Historical Latin Grammar (3) **	107 Oregon	

LAW

101a	101b	101c	....	Contracts (3) Tu W Th 8	Law Oregon	Decker
102a	102b	102c	....	Agency (2) M F 8	Law Oregon	R. J. Miller
220a	220b	....	....	Equity (4) Tu W Th S 8	Law Oregon	J. A. Miller
....	....	241	....	Constitutional Law (4) Tu W Th F 8	Law Oregon	Barnett
103a	....	....	....	Torts (2) M Tu 9	Law Oregon	Warner
....	103b	....	....	Torts (3) Tu Th S 9	Law Oregon	Warner
....	....	103c	....	Torts (3) M Th S 9	Law Oregon	Warner
105	....	....	....	Procedure I (2) Th 9, Sat 11	Law Oregon	Warner
231a	....	....	....	Procedure III (3) W F S 9	Law Oregon	Warner
....	231b	....	....	Procedure III (3) M W F 9	Law Oregon	Warner
....	....	231c	....	Procedure III (3) Tu W F 9	Law Oregon	R. J. Miller
233a	233b	....	....	Procedure V (2) Tu Th 9	Law Oregon	R. J. Miller
106	....	....	....	Criminal Law (4) Tu W F S 10	Law Oregon	Decker
....	108	....	....	Real Property I (1) M 10	Law Oregon	J. A. Miller
....	104	....	....	Personal Property (4) W Th F S 10	Law Oregon	J. A. Miller
....	....	109	....	Real Property II (Rights in Land) (3) W F S 10	Law Oregon	J. A. Miller
226	....	....	....	Real Property III (Titles) (3) M Th 10, F 11	Law Oregon	Decker
....	235	....	....	Damages (3) T 10, F S 11	Law Oregon	Hale
223a	223b	....	....	Sales (3) M Tu W 11	Law Oregon	Decker
....	....	236	....	Suretyship (3) M W F 11	Law Oregon	J. A. Miller
....	....	228	....	Real Property V (Wills) (4) S 8, M Th 10, Tu 11	Law Oregon	R. J. Miller
....	....	234	....	Procedure VI (3) S 9-12	Law Oregon	R. J. Miller
....	107a	107b	....	Procedure II (1) Tu 7-9 p. m.	Law Oregon	Bryson
232a	232b	....	....	Procedure IV (2) **		

MECHANICS AND ASTRONOMY

Course Number Fall	Winter	Spring	Fee	Subject, Credit, Days and Hour	Room	Bldg.	Instructor
102a	102b	102c	....	Applied Mechanics (3) M Tu Th 9	108	Arch	McAlister
101a	101b	101c	....	Analytical Mechanics (3) M W F 10	108	Arch	McAlister
201	....	....	....	Theory of Elasticity (4) **	108	Arch	McAlister
....	202a	202b	....	Hydrodynamics (4) **	108	Arch	McAlister
....	....	122	....	Practical Astronomy (3) **	108	Arch	McAlister

See additional courses listed under Architecture.
Other courses to be arranged.

MILITARY SCIENCE

			Deposit				
1	2	3	$10	Freshman Basic (1) M W F 11	R O T C		Rowland, Lewis, Conyers
				Lecture Sections F 8, W F 9, Tu Th 10			Sullivan
11	12	13	$10	Freshman Military Science (2) M W F 11	R O T C		Rowland and Lewis
				Lecture Section M 8, Th 1			
4	5	6	$10	Sophomore Basic (1) M W F 11	R O T C		Rowland and Lewis
				Lecture Section W 10, Th 9, F 10			
14	15	16	$10	Sophomore Military Science (2) M W F 11	R O T C		Baird, Rowland and Lewis
				Lecture Section Tu 11, W 9			
101	102	103	$10	Junior Advanced (3) M W F 11, 2 lectures **	R O T C		Baird
104	....	....	....	Field Fortification (Junior) (4) M Tu W F	R O T C		Rowland
....	105	....	....	Advanced Topography (Junior) (4) M Tu W F	R O T C		Lewis
....	....	106	....	Advanced Military Law (Junior) (4) M Tu W F	R O T C		Baird
121	122	123	$10	Senior Advanced (3) M W F 11, 2 lectures **	R O T C		Baird
124	....	....	....	Military Organization (Senior) (5) M Tu W Th F	R O T C		Baird
....	125	....	....	Musketry (Senior) (5) M Tu W Th F	R O T C		Lewis
....	....	126	..	Tactical Walks (Senior) (5) M Tu W Th F	R O T C		Baird

MATHEMATICS

			Fee				
2	....	....	....	Advanced Algebra (4) M Tu W Th 8	1	Johnson	DeCou
2	....	....	....	Advanced Algebra (4) M Tu W Th 8	101	Oregon	Milne
2	....	....	....	Advanced Algebra (4) M Tu W Th 8	3	Johnson	Copenhaver
....	3	....	....	Plane Trigonometry (4) M Tu W Th 8	101	Oregon	Milne
....	6	....	....	Math Theory of Investment (4) M Tu W Th 8	1	Johnson	Copenhaver
....	....	4	....	Analytic Geometry (4) M Tu W Th 8	101	Oregon	Milne
....	2	....	....	Advanced Algebra (4) M Tu W Th 8	3	Johnson	Copenhaver
....	....	3	....	Plane Trigonometry (4) M Tu W Th 8	3	Johnson	Copenhaver
....	....	6	....	Math. Theory of Investment (4) M Tu W Th 8	1	Johnson	DeCou
2	....	....	....	Advanced Algebra (4) M Tu W Th 9	206	Soc	Copenhaver
....	3	....	....	Plane Trigonometry (4) M Tu W Th 9	10	Educ	Copenhaver
3	....	....	....	Plane Trigonometry (4) M Tu W Th 9	10	Educ	Copenhaver
....	....	3	....	Plane Trigonometry (4) M Tu W Th 9	206	Soc	Copenhaver
....	....	6	....	Math. Theory of Investment (4) M Tu W Th 9	10	Educ	Copenhaver

4	....	....	....	Analytical Geometry (4) M Tu W Th 9	101	Oregon	Milne
....	7a	7b	....	Diff. Int. Calculus (4) M Tu W Th 9	101	Oregon	Milne
102a	102b	102c	....	Diff. and Int. Calculus (4) M Tu Th F 9	1	Johnson	DeCou
2	....	....	....	Advanced Algebra (4) M Tu W F 10	101	Oregon	Milne
....	6	....	....	Math. Theory of Investment (4) M Tu W F 10	1	Johnson	DeCou
....	....	2	....	Advanced Algebra (4) M Tu W F 10	101	Oregon	Milne
6	....	....	....	Math. Theory of Investment (4) M Tu W F 10	1	Johnson	DeCou
....	103a	103b	....	Differential Equations (3) M W F 11	1	Johnson	DeCou
202	....	....	....	Infinite Series (3) M W F 11	101	Oregon	Milne
....	203a	203b	....	Elastic Vibrations (3) M W F 11	101	Oregon	Milne
2	....	....	....	Advanced Algebra (4) M Tu W Th 1	101	Oregon	Copenhaver
....	6	....	....	Math. Theory of Investment (4) M Tu W Th 1	106	Oregon	Milne
....	2	....	....	Advanced Algebra (4) M Tu W Th 1	101	Oregon	Copenhaver
....	....	6	....	Math. Theory of Investment (4) M Tu W Th 1	106	Oregon	Copenhaver
....	....	2	....	Advanced Algebra (4) M Tu W Th 1	101	Oregon	Copenhaver
105	....	....	....	Theory of Equations and Determinantes (3) M W F 1	1	Johnson	DeCou
....	110	....	....	Projective Geometry (3) M W F 1	1	Johnson	DeCou
....	....	101	....	Teaching and History of Mathematics (3) M W F 1	1	Johnson	DeCou
1	....	....	....	Solid Geometry (4) M Tu W Th 2	106	Oregon	Copenhaver
2	....	....	....	Advanced Algebra (4) M Tu W Th 2	101	Oregon	Copenhaver
....	3	....	....	Plane Trigonometry (4) M Tu W Th 2	101	Oregon	Copenhaver
....	....	4	....	Analytical Geometry (4) M Tu W Th 2	101	Oregon	Copenhaver
....	6	....	....	Math. Theory of Investment (4) M Tu W Th 2	106	Oregon	Copenhaver

MUSIC

1a	1b	1c	$9	Elements Musical Science (3) Tu W Th 8	Music		Beck
10a	10b	10c	$9	History and Appreciation (2) M F 8	Music		Beck
2	....	....	$9	Contrapuntal Analysis (3) M Tu Th 9	Music		Coon
....	3	....	$9	Formal Analysis (3) M Tu Th 9	Music		Landsbury
....	....	4	$9	Harmonical Analysis (3) M Tu Th 9	Music		Landsbury
12a	12b	12c	$9	Public School Methods (3) M W F 2	Music		Beck
13a	13b	13c	....	Scientific Music Reading (1) Tu 2	Music		Beck
15	15	15	$9	Musical Interpretation of Motion Pictures (2) Tu Th 10	Music		Evans
21a	21b	21c	....	Orchestra (1-3) M 8 p. m., Tu 7:30 p. m.	Music		Underwood
22a	22b	22c	$9	Ensemble (1) Hours to be arranged	Music		Underwood
....	....	....	$15	Violin Class (limited to five) (1) Hours to be arranged	Music		Underwood
31a	31b	31c	$9	Orchestral Organization (1) (Class limited to ten) hrs. to be arr...	Music		Underwood
123a	123b	123c	....	Literature of the Piano (2) **	Music		Landsbury
101a	....	....	$1	Strict Counterpoint (2) **	Music		Landsbury
....	101b	101c	$9	Double Counterpoint, Canon and Fugue (2) **	Music		Landsbury

NOTE.—Practical Music. Piano—Landsbury, Evans, Thacher, ½ credit, $30; 1 credit, $55; Hopkins, ½ credit, $25; 1 credit, $45; Coon, ½ credit, $20; 1 credit, $40; Reid, ½ credit, $15; 1 credit $27.50. Voice—McGrew, ½ credit, $30; 1 credit, $55; Seifert, ½ credit, $25, 1 credit, $45. Violin—Underwood, ½ credit, $30; 1 credit, $55. Organ—Evans, ½ credit, $30; 1 credit, $55; Coon, ½ credit, $25; 1 credit, $45. Flute—Clark, ½ credit, $15; 1 credit, $27.50. Cello—Teschner, ½ credit, $15; 1 credit $27.50.

PHILOSOPHY

Course Number Fall	Winter	Spring	Fee	Subject, Credit, Days and Hour	Room Bldg.	Instructor
1a	1b	1c	....	Practical Ethics (1-3) Tu 11	Assembly Villard	Fox
....	52	....	....	Ethics (3) Tu W Th 2	111 Johnson	Rebec
....	....	53	....	Introduction to Philosophy (3) Tu W Th 2	111 Johnson	Rebec
106	....	....	....	American Philosophy (3) M W F 11	101 Villard	Bates
101a	101b	101c	....	History of Philosophy (3) M W F 1	111 Johnson	Bates
102	....	....	....	Philosophy of History (3) Tu W Th 2	111 Johnson	Rebec
201a	201b	201c	....	Philosophical Seminar (3) Tu Th 3	111 Johnson	Rebec

PHYSICS

1a	1b	1c	$3	Essentials of Physics (3) M F 8	105 Deady	Pruett
114a	114b	114c	$3	Electrical Measurements (3) W F 9 (Lab. M W 1-4)	3 Deady	Boynton
201	....	....	....	Thermodynamic Potentials (3) M Tu Th 9	3 Deady	Boynton
....	202	....	....	Statistical Physics (3) M Tu Th 9	3 Deady	Boynton
....	....	203	....	Conduction of Heat (3) M Tu Th 9	3 Deady	Caswell
4a	4b	4c	$3	General Physics (4) Tu Th 10 (Quiz sections, 4)	105 Deady	Caswell
7a	7b	7c	$3	Principles of Physics (3) M F 10	105 Deady	Caswell
				(Lab. for 1-4-7 Any p. m. 1-4, Sat a. m. 9-12)	101 Deady	Caswell and Pruett
111a	111b	111c	$3	Intr. to Theor. Physics (3) M 8, Tu 11	107 Deady	Caswell
				(Lab. ** 1-4)	101 Deady	Caswell
101	....	....	....	Hist. and Teaching of Physics (3) M W F 11	3 Deady	Boynton
....	....	106	$5	Photography (3) W F 11	107 Deady	Boynton
				(Lab ** 1-4)	103 Deady	Boynton
100	100	100	$3	Laboratory Arts ** 1-4	101 Deady	Caswell
120a	120b	120c	$3	Advanced Laboratory **	Deady	Boynton and Caswell
200a	200b	200c	$3	Research Laboratory **	Deady	Boynton and Caswell
130a	130b	130c	....	Journal Club **	3 Deady	Staff
220a	220b	220c	....	Seminar **	3 Deady	Staff

POLITICAL SCIENCE

105	....	....	....	City Government (4) Tu W Th F 8	4 Com	Barnett
....	106	....	....	Political Theory (4) Tu W Th F 8	4 Com	Barnett
....	....	101	....	Constitutional Law (4) Tu W Th F 8	4 Com	Barnett
1b	1a	....	....	Modern Governments (4) M Tu W Th 9	4 Com	Barnett
....	....	107	....	League of Nations (4) M Tu W Th 9	105 Oregon	Barnett
1a	1b	1c	....	Modern Governments (4) M Tu W F 10	105 Oregon	Barnett

21	....	....	....	Social Psychology (3) M Tu Th 9	204	McClure	Conklin
21	....	....	....	Social Psychology (3) M W F 2	204	McClure	Crosland
21	....	....	....	Social Psychology (3) M W F 3	105	Deady	K. Young
31	....	....	$2	Social Psychology (4) M Tu Th 9	204	McCl. Conklin, Crosland, Hager	
31	....	....	$2	Social Psychology (4) M W F 2	204	McClure	Crosland and Hager
31	....	....	$2	Social Psychology (4) M W F 3	105	Deady	Young, Crosland, Hager
22	....	....	....	Vocational Psychology (3) M W F 2	105	Deady	Young
32	....	....	$2	Vocational Psychology (4) M W F 2	105	Deady	Young, Crosland, Hager
23	....	....	....	Advertising Psychology (3) M Tu Th 9	105	Deady	Crosland
33	....	....	$2	Advertising Psychology (4) M Tu Th 9	105	Deady	Crosland
				(Lab. for 31, 32 and 33 Tu, Th 1-4 or S a. m. 9-12)	201	McClure	Crosland and Hager
....	1a	1b	....	Elementary (3) M Tu Th 9	105	Deady	Crosland
....	1a	1b	....	Elementary (3) M W F 2	204	McClure	Crosland
....	1a	1b	....	Elementary (3) M W F 2	105	Deady	Young
....	1a	1b	....	Elementary (3) M W F 3	105	Deady	Young
....	1a	....	....	Elementary (3) M Tu Th 9	204	McClure	Wheeler
....	....	1b	....	Elementary (3) M Tu Th 9	204	McClure	Conklin
....	11a	11b	$2	Elementary (4) M Tu Th 9	105	Deady	Crosland
....	11a	11b	$2	Elementary (4) M W F 2	204	McClure	Crosland
....	11a	11b	$2	Elementary (4) M W F 2	105	Deady	Young
....	11a	11b	$2	Elementary (4) M W F 3	105	Deady	Young
....	11a	....	$2	Elementary (4) M Tu Th 9	204	McClure	Wheeler
....	....	11b	$2	Elementary (4) M Tu Th 9	204	McClure	Conklin
				(Lab. Tu Th 1-4 or S a. m. 9-12)	201	McClure	Crosland and Hager
106a	106b	....	....	Adolescence (3) Tu W Th 8	204	McClure	Conklin
....	....	108	....	Mental Measurements (3) Tu W Th 8	201	McClure	Wheeler
110	....	....	....	Individual and the Group (3) Tu W Th 8	201	McClure	Young
....	112	....	....	Ethnic Psychology (3) Tu W Th 8	201	McClure	Young
....	....	113	....	Employment Psychology (3) Tu W Th 8	204	McClure	Young
103a	103b	103c	....	Systematic (3) M W F 10	204	McClure	Wheeler
109	....	....	....	Psych. of Learning (3) M W F 11	204	McClure	Wheeler
....	....	122	....	Principles of Psychoanalysis (2) Tu Th 10	201	McClure	Conklin
205	....	....	....	Advanced Experimental (2) Tu Th 10	204	McClure	Wheeler
....	209	....	....	Behaviorism (2) Tu Th 10	204	McClure	Wheeler
....	....	208	....	Higher Thought Processes (2) Tu Th 10	204	McClure	Wheeler
....	104	....	....	Abnormal (3) M W F 11	204	McClure	Conklin
....	201	....	....	History of Psychology (3) M W F 2	201	McClure	Conklin
117a	117b	117c	$2	Advanced Laboratory (2) M W 3-5	201	McClure	Crosland
107a	107b	107c	....	Research and Thesis (2-3) **	202	McClure	Conklin
207a	207b	207c	....	Research and Thesis **	202	McClure	Conklin
107a	107b	107c	....	Research and Thesis (2-3) **	201	McClure	Wheeler
207a	207b	207c	....	Research and Thesis **	201	McClure	Wheeler
203	....	....	....	Methodology (3) **	202	McClure	Conklin
....	....	211	....	Attention and Perception (2) **	201	McClure	Crosland
....	....	202	....	History Seminar (2) **	202	McClure	Conklin
				Seminar **			Dept. Staff

ROMANCE LANGUAGES

Students who have entrance credit for one year of high school French or Spanish take French 1c (given the fall term at 4 p. m.) or Spanish 11c (given fall term at 1 p. m.)

Students who have entrance credit for two years of high school French or Spanish take the second year in college.

Students who have entrance credit for three years of high school French or Spanish take third year courses in college.

FRENCH

Courses Number			*Fee*	*Subject, Number, Days and Hour*	*Room*	*Bldg.*	*Instructor*
Fall	*Winter*	*Spring*					
2a	2b	2c	....	Second year French (4) M Tu W Th 8	4	Oregon	Coon
1a	1b	1c	....	First year French (5) M Tu W Th F 8	6	Oregon	Gouy
1a	1b	1c	....	First year French (5) M Tu W Th F 9	4	Oregon	Coon
8a	8b	8c	....	Second year French (Scientific) (3) M Tu Th 9	109	Oregon	Thorstenberg
108a	108b	108c	....	Third year French (Scientific) (2) W F 9	109	Oregon	Thorstenberg
1a	1b	1c	....	First year French (5) M Tu W Th F 9	1	Oregon	Gray
208a	208b	208c	....	French Literature (4th year) (3) M Tu Th 9	2	Oregon	Cloran
2a	2b	2c	....	Second year French (4) M Tu W F 10	4	Oregon	Coon
1a	1b	1c	....	First year French (5) M Tu W Th F 10	1	Oregon	Gray
				Office M Tu W Th F 10	3	Oregon	Cloran
103a	103b	103c	....	French Literature (3rd year) (3) M W F 11	4	Oregon	Cloran
206a	206b	206c	....	Old French (1) Tu 11	4	Oregon	Cloran
1a	1b	1c	....	First year French (5) M Tu W Th F 1	4	Oregon	Gray
2a	2b	2c	....	Second year French (4) M Tu W F 1	5	Oregon	Gouy
1a	1b	1c	....	First year French (5) M Tu W Th F 2	5	Oregon	Gouy
2a	2b	2c	....	Second year French (4) M Tu Th F 2	4	Oregon	Gray
105a	105b	105c	....	French Conversation (3rd year) (3) M W F 2	2	Oregon	Coon
106a	106b	106c	....	French Conversation (4th year) (2) Tu Th 3	5	Oregon	Gouy
....	1a	1b	....	First year French (5) M Tu W Th F 3	4	Oregon	Gray
107a	107b	107c	....	French Pronunciation (4th year) (1) Tu 4	5	Oregon	Gouy
1c	3a	3b	....	First year French (3rd term) (5) M Tu W Th F 4	4	Oregon	Gray

ITALIAN

120a	120b	120c	....	First year Italian (3) Tu W Th 8	1	Oregon	Cloran
220a	220b	220c	....	Second year Italian (2) W F 9	2	Oregon	Cloran

SPANISH

113a	113b	113c	....	Spanish Literature (Third year) (2) M F 8	1	Oregon	Cloran
11a	11b	11c	....	First year Spanish (5) M Tu W Th F 8	2	Oregon	Cuevas
12a	12b	12c	....	Second year Spanish (4) M Tu W Th 8	5	Oregon	Thompson
11a	11b	11c	....	First year Spanish (5) M Tu W Th F 9	5	Oregon	Thompson
12a	12b	12c	....	Second year Spanish (4) M Tu W Th 9	6	Oregon	Espinosa
11a	11b	11c	....	First year Spanish (5) M Tu W F 10	5	Oregon	Thompson
12a	12b	12c	....	Second year Spanish (4) M Tu W F 10	6	Oregon	Espinosa
11a	11b	11c	....	First year Spanish (5) M Tu W Th F 1	1	Oregon	Espinosa
11c	13a	13b	....	First year Spanish (Third term) (5) M Tu W Th F 1	6	Oregon	Whyte
115a	115b	115c	....	Spanish Conversation (Third year) (3) M W F 1	2	Oregon	Cuevas

117a	117b	117c	....	Spanish Conversation (Fourth year) (2) Tu Th 1	2	Oregon		Cuevas
20a	20b	20c	....	Commercial Spanish (Second year) (4) M Tu W Th 2	6	Oregon		Whyte
11a	11b	11c	....	First year Spanish (5) M Tu W Th F 2	1	Oregon		Cuevas
130a	130b	130c	....	First year Portuguese (2) Tu Th 2	2	Oregon		
12a	12b	12c	....	Second year Spanish (4) M W Th F 3	2	Oregon		Thompson
160a	160b	160c	....	Commercial Spanish (Third year) (3) M W F 3	6	Oregon		Whyte
161a	161b	161c	....	Commercial Spanish (Fourth year) (2) Tu Th 3	6	Oregon		Whyte
....	11a	11b	....	First year Spanish (5) M Tu W Th F 4	6	Oregon		Whyte

SOCIOLOGY

1a	1b	....	....	Social Evolution (3) Tu W Th 8	206	Soc		Bain
....	....	1c	....	Psychological Foundations (3) Tu W Th 8	206	Soc		Bain
1a	1b	....	....	Social Evolution (3) M W F 10	206	Soc		Bain
....	....	1c	....	Psychological Foundations (3) M W F 10	206	Soc		Bain
....	....	140	....	Community Organ. and Development (3) Tu W Th 8	205	Soc		Young
104a	104b	....	....	Principles of Sociology (5) M Tu W Th F 9	205	Soc		Bain
....	....	105	....	New Social Order (5) M Tu W Th F 9	205	Soc		Bain
202a	202b	....	....	Sociological Systems (5) M Tu W Th F 9	201	Soc		Young
....	112	....	....	The Teaching of Social Sciences (1) Tu 10	205	Soc		Young
136a	136b	....	....	Theory of Social Progress (3) M W F 10	205	Soc		Young
....	....	145	....	Cooperation & The New Guild (3) M W F 10	205	Soc		Young
203	....	....	....	Social Survey (3) M W F 11	205	Soc		Young
....	204	....	....	Social Statistics (3) M W F 11	205	Soc		Young
....	....	205	....	Town, City & Regional Plan (3) M W F 11	205	Soc		Young
110a	110b	110c	....	Introduction to Philanthropy (2) Fr. at 9 and 11	206	Soc		Parsons
114a	114b	114c	....	Social Pathology (2) Fr. at 10 and 3	201	Soc		Parsons
210a	210b	210c	....	The Social Work of the Professional Man & Woman (1) F 2	205	Soc		Parsons

ZOOLOGY

1a	1b	1c	$2	Animal Biology (4) Tu W 8 (Lab. sections I, Tu Th 1-3; II, Tu Th 3-5; III, W 1-3; S 8-10; IV, W 3-5; S 10-12)	105	Oregon		Torrey
					203	Deady		Horning
107	....	....	$5	Cytology and Comp. Hist. (4) W Th 8 (Lab. W 1-4, S 8-11)	203	Deady		Yocum
108a	....	....	$5	Vertebrate Anatomy (4) M F 8 (Lab. M F 1-4)	203	Deady		Yocum
....	108b	....	$3	Mammalian Anatomy (3-4) M 8 (Lab. M W F 1-4)	203	Deady		Yocum
....	103	....	$5	General Embryology (4) W Th 8 (Lab. W 1-4, S 8-11)	203	Deady		Yocum
....	....	104	$5	Advanced Embryology (4) W Th 8 (Lab. W 1-4, S 8-11)	203	Deady		Yocum
101a	101b	....	$5	Physiology (4) Tu W 11 (Lab. Sec. I, M F 1-4; II, Tu Th 1-4)	203	Deady		Lancefield
....	....	102	$5	General Physiology (4) Tu W 11 (Lab. sec. I, M 1-5; II, F 1-5)	203	Deady		Lancefield
105	....	....	....	Organic Evolution (2) M F 11	203	Deady		Lancefield
....	106	....	....	Heredity and Eugenics (2) M F 11	203	Deady		Lancefield
....	....	115	$2	Genetics (3) M F 11 (Lab. **)	203	Deady		Lancefield
120	120	120	$5	Special Problems **	203	Deady		Staff
201a	201b	201c	....	Seminar (1) **	203	Deady		Torrey
203	203	203	$5	Research **	203	Deady		Torrey

DESCRIPTION OF COURSES

The following is the statement of the courses now offered for the year 1921-22.

Numbers between 1 and 99 indicate courses intended primarily for lower division students, those between 100 and 199 indicate courses intended primarily for upper division students, although many of this group may be taken for graduate credit. while those numbered 200 and above are exclusively graduate courses.

Courses numbered a, b, c, represent year courses which should be taken in the prescribed sequence.

Laboratory and other fees in connection with the courses are given in detail in the Schedule of courses in Part I of this bulletin.

Not all the courses here listed are offered in any one year, although practically all the lower division courses and many of the upper division are so given. The work presented will however be open to the student during a reasonable period of residence.

ARCHITECTURE AND ALLIED ARTS

Dean LAWRENCE; Professors ADAMS, KING, MCALISTER, SCHROFF;
Assistant Professors FAIRBANKS, KERNS;
Instructor AVAKIAN

LOWER DIVISION

1a, b, c. ARCHITECTURAL DESIGN ELEMENTS. Freshman. The relations of composition, mass and line as applied to architecture. Simple problems are drawn and rendered, and the sense of pro-

portion, scale and composition is further developed by the actual making of cardboard models. Lawrence, King.

One hour, each term.

2a, b, c. ARCHITECTURAL DESIGN. Sophomore. Architectural drawings are made and rendered; the Orders of Architecture studied and incorporated in the problems. Frequent sketch problems are executed in order to develop facility and resourcefulness in correct design. Lawrence, King. *Three hours, each term.*

3a, b, c. ARCHITECTURAL HISTORY. The student is required to make pencil sketches from lantern slides thrown on the screen. These sketches are supplemented by notes obtained from lectures and research. Egyptian, Assyrian, Persian, Greek, Roman, and Byzantine styles. Lawrence. *One hour, each term.*

4a, b. RESEARCH IN ORNAMENT AND STYLE. Sophomore. A study of the characteristics of a certain style of Architecture. The results of this study are incorporated in a carefully rendered drawing. Lawrence, King. *One hour, winter and spring terms.*

UPPER DIVISION

101a, b, c. ARCHITECTURAL DESIGN. Junior. A continuation of Course 2. Plans, elevations, sections, and perspectives rendered, and studied in their relations to one another. Problems in which the consideration of actual conditions of material, location, limitations of environment, etc., must be worked out. As far as possible this is correlated with the courses in City Planning and Domestic Architecture. Lawrence, King.

Four hours each term for Design Option. Four hours, fall term, two hours winter and spring term for Structural option.

102a, b, c. ARCHITECTURAL DESIGN. Senior. A continuation of Course 101, carrying on the practical adaptation of principles of aesthetic and structural design to conditions that arise in building construction. Lawrence, King. *Six hours, each term.*

103a, b, c. ARCHITECTURAL HISTORY. Junior. This is a continuation of Course 3, and covers the field of Romanesque, Gothic, Renaissance, and Modern Architecture. Lawrence.

Two hours, each term.

104a, b, c. Research in Ornament and Style. Junior. The student continues the work of Course 4. Lawrence, King.
One hour, each term.

105a, b, c. Domestic Architecture. Junior. Problems involved in planning residences, such as arrangement of floor plans, site of building, elevations, landscape gardening, interior decoration and furniture, etc. Sketches and rendered drawings. Lawrence.
One hour, each term.

106a, b, c. Specifications and Working Drawings. A study of building operations and materials to enable the student to write specifications intelligently and concisely. When opportunity offers, actual building operations are visited and methods observed. King.
One hour, each term.

107a, b, c. Advanced Domestic Architecture. A continuation of Course 105 for advanced students. Lawrence.
Number of credits to be arranged.

108a, b, c. Elements of City Planning. The correct layout for a city is studied, seeking to harmonize the various requirements such as residential sections, business section, traffic arteries, streets, civic centers, etc. Actual government or municipal topography maps are used for the basis of the study. A city plan is carefully drawn and rendered. Lawrence.
One hour, each term.

109a, b. Ethics and Business Relations. Matters concerning the conduct of business and professional ethics in their relations to the architectural profession. Business and professional relations between Owner, Architect, and Contractor. Methods of office management. Lawrence.
One hour, winter and spring terms.

110a, b, c. Pen and Pencil. The use of the pen and pencil in making rendered drawings. Studies in composition and rendering are carefully executed, with special emphasis on the values of lights and shades. King.
One hour, each term.

111. Architectural History, Advanced. Lawrence.
One hour, fall term.

Graphics

Lower division

51a, b. Descriptive Geometry. An analytical study of the subject of projections, giving a thorough groundwork for all branches of drafting. Problems in the geometry of points, lines and planes; solids; development of surfaces; plane sections; intersections of solids; etc. *Two hours, fall and winter terms.*

52. Shades and Shadows. Practical methods of construction for finding positions of the shades and shadows on drawings of architectural subjects. Location of shade lines on the cylinder, torus, sphere and other typical forms.
Two hours, spring term.

53a, b, c. Instrumental Drawing. For students in Normal Art, practice in the use of drawing instruments making simple plans and elevations. Geometric drawing, projections and perspectives are made the basis of the problems.
One hour, each term.

54a, b, c. Mechanical Drawing. A study of the underlying principles of drafting, including problems in projections, developments, intersections of solids, isometric drawing, tracing and blue printing. *Two hours, each term.*

55. Perspective. The principles involved in the construction of perspective drawings. The orthographic plan method and the perspective plan method are both analyzed and used. Vanishing points and vanishing traces are found by construction. Practical applications to conditions that arise in practice.
Two hours, winter term.

56a, b. Lettering. Brief outline of the historical development of styles of alphabets. Drawing of alphabets. Titles are constructed, suitable for mapping and general drafting office use. This course might well be used to supplement the courses in Mechanical Drawing and Instrumental Drawing.
Two hours, fall and winter terms.

57. Advanced Mechanical Drawing. Problems in kinematics of machinery, cams, gears, etc. Adams.
Two hours, spring term.

Construction

LOWER DIVISION

61a, b, c. Working Drawings. Scale and full size drawings of various details of building construction, such as windows, doors, cupboards, stairways, fireplaces, cornices, etc.

One hour, fall term. Two hours, winter and spring terms.

62a, b. Surveying. Lectures and field work designed to enable the student to measure lines with the steel tape; to measure angles with the transit; to determine the differences in level by means of the level instrument; to run traverse lines and lot lines; to plot field notes; to make contour maps and profiles; to perform simple calculations of area and earthwork. Adams.

Two hours, winter and spring terms.

UPPER DIVISION

161a, b. Strength of Materials. Practical problems and exercises in the design of beams, columns, thin plates and cylinders, including actual tests and experiments with the testing machines. McAlister. *Three hours, fall and winter terms.*

162a, b. Graphic Statics. Problems in equilibrium are solved by graphic constructions. The stresses in framed structures are determined by means of stress diagrams. A study is made of the influence line for moving loads. The subject matter of this course parallels that of the course in Stresses. Adams.

Two hours, fall and winter terms.

163. Stresses. The subject matter covered by this course is the same as in Graphic Statics. The solutions, however, are worked out by analytical calculation instead of graphic construction. Adams. *Three hours, spring term.*

164. Wooden Trusses. A careful study of the theory and practice in regard to wooden truss design. The sizes of truss members are designed in accordance with their stresses. Detail drawings for constructive purposes. Proper design of the truss joints. Adams. *Two hours, spring term.*

165. Hydraulics. A study of the laws governing the flow and pressure of water in pipes and conduits. Application to

hydraulic motors, hydraulic elevators, sprinkler systems, etc. McAlister. *One hour, fall term.*

166. Special Subjects. Heating, plumbing, ventilation, acoustics and illuminating. A concise presentation of the underlying principles for design option students. *One hour, fall term.*

167a, b. Sanitary Science and Public Health. The proper design and construction of buildings to conform to the preservation of health and sanitation. A study of the fundamental laws governing sanitation and health.
One hour, winter and spring terms.

168. Building Materials and Constructive Types. The various materials used in building operations in their relation to the different types of structures; such as stone, concrete, iron, steel, wood, tile, etc. Adams. *One hour, fall term.*

169a, b, c. Constructive Design. For Design Option students. A brief study of the calculations and design of trusses in wood and steel; plate girders; reinforced concrete. McAlister. Adams. *Two hours, each term.*

170a, b. Reinforced Concrete. The underlying principles upon which the design of reinforced concrete construction is based. Problems in designing simple beams and columns. Prac tical working formulas and data. McAlister.
Three hours, fall and winter terms.

171. Masonry. The various uses of brick and stone in building construction in their relation to strength and durability. Bonding; relieving arches; lintels; strength of walls, bearing plates; footings, etc. Applications of descriptive geometry to stone cutting. *Four hours, spring term.*

172. Heating and Ventilation. The various methods of heating and ventilation. The fundamental principles governing the efficiency and adaptability of the systems to practical problems. Calculations for sizes of installations.
Three hours, fall term.

173. Electric Lighting and Wiring. Proper sizes of wires for various lighting installations. Direct and indirect systems of illumination and proper methods of installation. Lighting for special purposes, such as residences, stores, auditoriums, etc. Rules and regulations of the National Board of Fire Underwriters. *Three hours, winter term.*

174. Mechanical Appliances for Buildings. Investigation of the special appliances and machinery to be found in hotels, apartment houses, public buildings, etc.; pumps, vacuum systems; refrigeration systems; private water systems, etc.
Three hours, spring term.

175. Foundations. Investigation of the bearing powers of different soils, and methods of designing and constructing foundations to suit the conditions. Use and construction of caissons.
Three hours, fall term.

176a, b. Arches. The theoretical and practical considerations involved in the design of arches in stone, brick and concrete, applied to problems in practice.
Three hours, fall and winter terms.

177a, b. Steel Trusses. The sizes of members of steel trusses calculated from their stresses. Pin connected and riveted joints in steel trusses designed and investigated.
Two hours, fall and winter terms.

178a, b. Steel Frame Buildings. Considerations involved in the calculation and design of the steel frame structures. Floor systems. Types of Columns. Riveting.
Two hours, winter and spring terms.

Fine Arts

lower division

21a, b, c. Elementary Still Life. Still life studies and drapery. Elementary work with the use of pencil, charcoal, pastelle, oil and water color. *One or two hours, each term.*

22a, b, c. Water Color and Oil Painting. Still life studies of drapery, landscape, etc. Outdoor work from nature when

weather permits. Representation and composition only are studied in this course. The mediums used are oil, water color, charcoal, pencil, etc. *One hour, each term.*

23a, b, c. COLOR THEORY. The prismatic and pigment theories are both discussed and demonstrated, together with practical problems covering the subjects of balance, chroma, color relations in areas and intensities, all leading up to the science of Color Harmony. *One hour, each term.*

24a, b, c. ELEMENTARY MODELING. Gives the student a general idea of the art and technique of Sculpture. The course includes modeling from life, portrait modeling, and the study of composition. Fairbanks. *One hour, each term*

30a, b, c. ARCHITECTURAL ORNAMENT. The drawing, modeling and casting of historic forms of ornament. Fairbanks. *One hour, each term*

31a, b, c. LIFE CLASS. Studies of the nude form from living models. *One or two hours, each term.*

41a, b, c. ART APPRECIATION. Intended for the general student who is interested in, but not specializing in, Art. Art history, decorative art, biographies of painters and sculptors, etc. Exhibitions of color plates, photographs, lantern slides and casts. Research work in the Art Library. *One hour, each term.*

42 a, b, c. ART OF THE BOOK AND POSTER. Lecture and laboratory of the principles and practices of the printing art. Laboratory training in designs that will reproduce effectively. Open to journalism and commerce majors. Schroff. *Two hours, each term.*

UPPER DIVISION

131a, b, c. LIFE CLASS. A continuation of course 31, conducted in the same manner. *One or two hours, each term.*

132a, b, c. CARTOONS FOR MURALS AND STAINED GLASS. Practical problems worked out in the studio, leading to the production of actual work in stained glass, and interior decoration. Only

those students who have learned to draw the human figure and to create in color are eligible for this course.

One hour, each term.

141a, 141b, 141c. CIVILIZATION AND ART EPOCHS. Lectures covering history, archaeology and evolution of all the art in the world. The influence of political, ecclesiastical, aesthetic and ethnological evolution upon art in every form; the influence of art of all times upon humanity. Illustrated by means of photographs, lantern slides, color plates, etc. *Two hours, each term.*

142a, 142b, 142c. PRINCIPLES AND PRACTICES OF DECORATIVE DESIGN. Problems in applied design leading to applications in the crafts, together with historic precedents and parallels to develop usefulness in the art of our daily lives.

Two hours, each term.

143a, 143b, 143c. PRINCIPLES AND PRACTICE OF DECORATIVE DESIGN; ADVANCED. A further development of the principles and application worked out in Course 142.

Two hours, each term.

144a, b, c. ADVANCED MODELING. A continuation of Elementary modeling. It is prepared for those more deeply interested in the art, and those who intend to make sculpture their profession. Fairbanks. *One to five hours, each term.*

145. ARTISTIC ANATOMY. One lecture a week, without credit.

Winter term.

146a, b, c. ADVANCED ARCHITECTURAL ORNAMENT. A more thorough study of ornament and the use of nature in the creation of ornamental designs. Fairbanks. *One hour, each term.*

147a, b, c. SCULPTURAL THEORY. A lecture course for all students who are interested in sculpture. A brief survey of sculpture composition, processes, ideals and general history. Fairbanks. *One hour, each term.*

148a, b, c. ADVANCED SCULPTURAL THEORY. A continuation of course 147, with a more thorough study of sculpture history. Fairbanks. *One hour, each term.*

149a, b, c. ARTISTIC PHOTOGRAPHY. This course aims to give the student a better idea of Composition and of the play of lights and shadows. *One hour, each term.*

NORMAL ART

LOWER DIVISION

91a, b, c. FIRST YEAR DESIGN. The theory and structure of the space arts. Laboratory exercises in pure design, including work in line, nature and color; application of design to industrial art or craft, such as linoleum printing of cards and book plates, enameling of boxes, etc. Fundamental for all students working toward any profession that requires a knowledge of space relations and color harmony. Kerns. *Two hours, each term.*

92a, b, c. SECOND YEAR DESIGN. A continuation of Course 91, with the added application of design to wood block prints for illustrations, wood block printing on textiles, batik, etc. Kerns. *Two hours, each term.*

93a, b, c. REPRESENTATION. The problems in accurate rendering; free wash studies of flowers; still life; perspective. Emphasis is placed on arrangement and spacing, using methods applicable to the presentation of the subject in the grade schoolss and junior high schools. The mediums used are pencil, charcoal, crayon, transparent and opaque water colors. Avakian. *One hour, each term.*

UPPER DIVISION

191a, b, c. PEDAGOGY OF ART. School problems in Art, such as design, representation, lettering and color. The planning of courses of study for the grade school and high school. Lesson plans on type subjects. Observation of art as taught in the city schools and University high school. Assigned readings. Laboratory work in some elementary industrial art processes and methods of presentation. Kerns. *Two hours, each term.*

192a, b, c. APPLIED DESIGN. More advanced work following course 92, comprising practical problems in applied design. *Two hours, each term.*

193a, b, c. APPLIED DESIGN. An advanced course taking up other practical applications in design not included in course 192. Prerequisite course 92. Avakian. *Two hours, each term.*

BOTANY

Professor SWEETSER; Instructor SANBORN;
Graduate Assistant NAUERTH; Mrs. LANCEFIELD.

Students planning to make Botany their major subject should include in their lower division program course 1, general botany, and if possible also the courses in general zoology and general chemistry.

To be recommended as teachers of botany, students should take at least courses 1, 108, 109, and 112.

1a, b, c. GENERAL BOTANY. (a) A study of the cell, its structure, function and relation to heredity. An investigation of life processes as exemplified in a few typical plants. (b) A further study of the life processes in lower plant forms, especially mosses, algae, fungi and lichens, their classification and economic importance. (c) The habits, physiology, methods of reproduction, ecological relations, economic value and classification of the flowering plants. Students may enter this course any term. Three lectures and one laboratory period. Sweetser.
Four hours, each term.

11. SANITATION. The study of diseases, their causes and prevention; pure food, pure water, pure milk. Open to freshmen. Sweetser. *Three hours, fall term.*

UPPER DIVISION

103a, b, c. PLANT HISTOLOGY. A study of plant tissues. The technique of killing, embedding, sectioning, staining, and mounting of plant tissues. Sanborn. *Four hours, each term.*

104. MEDICAL AND ECONOMIC BOTANY. Plants used in medicine and the powdered drugs made from them. Plants used for food and in the arts. Sweetser. *Three hours, spring term.*

105. Plant Physiology. A study of life phenomena as manifested in the plant. Pre-requisites, Courses 1a, b, c. Lectures and laboratory. Sweetser. *Four hours, winter term.*

106. Bacteriology. Two lectures and two laboratory periods a week. Sweetser and Sanborn. *Four hours, winter term.*

107. Bacteriology. Continuation of Bacteriology 106. Two lectures and two laboratory periods a week. *Four hours, spring term.*

108. Systematic Botany. The classification of as many plant forms as possible. Two lectures and one laboratory period a week. Sweetser. *Three hours, fall term.*

109. Field and Systematic Botany. Analysis and classification of spring plant forms. Sweetser. *Three hours, spring term.*

110. Advanced Work in Botany. Thesis. *Hours and credit to be arranged.*

111. Seminar. *One hour.*

112. Pedagogy. Practical study of methods of instruction in Botany. Sweetser. *Three hours, winter term.*

114. Research. Work in Systematic Botany. *Hours and credit to be arranged.*

117. Advanced Laboratory Work in Bacteriology. A continuation of Courses 106 and 107. Two laboratory periods. *Two hours, any term.*

GRADUATE DIVISION

213. Research. Botanical problem.

214. Research. Bacteriological problem.

215. Graduate Seminar.

BUSINESS ADMINISTRATION

Dean Robbins; Professors Bolitho, Lomax, Rutter; Assistant Professors Hogan, McDougle, McManus, Whittaker; Instructors Folts, Janney

LOWER DIVISION

2 a, b. Trade Routes and World Ports. A study of the ports of the world; the trade routes or main lines of ocean transportation on which the ports are located; the products and manufactures adjacent to each port and principal interior cities of each country, from a foreign trader's viewpoint. Rutter, Lomax.

Four hours, fall and winter terms.

8 a, b, c. Principles of Accounting. An introduction to the entire field of accounting. A study of proprietorship from the standpoint of single ownership, partnership and corporation organization. Retail, wholesale, commission, joint ventures and non-trading concerns are analyzed from the accounting viewpoint. Single- and double-entry systems are studied and compared and accounting systems from the simple to the complex are constructed from the basic accounting principles. A study of financial statements and the collection, interpretation and comparison of their data. The amount of bookkeeping is kept at the lowest point which is consistent with a thorough understanding of the principles involved. Required of all Commerce majors. McDougle, Janney.

Four hours, each term.

10. Elementary Cost Accounting. The study of the basic principles of cost and factory accounting. A consideration of the elements of cost and a detailed study of recording and accounting for materials; direct and indirect labor; and the distribution of the manufacturing burden; the correlation of cost records with general records through controlling accounts and making and interpretation of manufacturing statements. Required of all majors in Commerce. Pre-requisite, Principles of Accounting. Janney.

Five hours, fall term.

11. Advanced Accounting Principles. This course includes a study of accounting records required in the organization of

partnerships, corporations and joint ventures. Involves the changing of proprietorship and partnership records to corporation records. Special attention is given to closing and re-adjusting entries. Statements of Affairs, Realization and Liquidation to Deficiency Accounts and non-trading concerns are studied. Required of all majors in Commerce. Pre-requisite, Principles of Accounting. McDougle. *Five hours, winter term.*

12. PRINCIPLES OF BUSINESS. This course correlates all work in Commerce and Economics given in the lower division. Going business concerns, large and small, are put into actual operation necessitating a study of the organization and operation of various types of enterprises. The object of this course is to prepare the student for the strictly technical courses which follow in the junior, senior and graduate years. Robbins.

Four hours, spring term.

UPPER DIVISION

I. GENERAL BUSINESS ADMINISTRATION

109 a, b, c. LABOR MANAGEMENT. This course is intended primarily for those who expect to deal with large groups of labor. It is a survey of the scope and work of the labor manager, and includes a study of the technique of the various types of trade agreements, the application of scientific management to labor and the attitude of organized labor toward it and a consideration of the various means of industrial betterment employed by representative firms throughout the country. Prerequisite, Labor Problems and senior or graduate standing. Robbins.

Four hours, each term.

110a, b, c. SEMINAR IN CORPORATION MANAGEMENT.

Hours to be arranged.

113. BUSINESS FINANCE. A technical study of the modern methods of financing business. Individual, partnership and corporation enterprises are given consideration. A fundamental course for all Commerce students. Hogan. *Five hours, any term.*

114a. INVESTMENTS. A study of the determination of investment as differentiated from speculation; a review of the fundamental economics of investment, a study of the various channels

of investment and the more common forms that investment assumes. The course is of interest to any student contemplating a business career and is essential to the student interested in commercial or investment banking. No credit given until completion of 114b. Folts. *Four hours, fall term.*

114b. INVESTMENTS—CONTINUED. Various representative investment securities are studied in detail; the course includes a brief review of the mathematics of investment and concludes with a consideration of the generally accepted principles recommended for the guidance of the average investor. Pre-requisite, Investments 114a. Folts. *Four hours, winter term.*

115. BROKERAGE. A study of the organized stock and commodity markets of this country and of Europe. The functions, activities and procedure of each is considered and a detailed study is made of the New York Stock Exchange and the Chicago Board of Trade. The material is so presented as to give a clear understanding of the economic function of organized speculation, and on completion of the course the student should be able to read intelligently the financial page of the daily newspaper considered as a general business barometer. Folts.

Four hours, fall or spring term.

116. BANKING PROCEDURE AND PRACTICE. This course treats the bank from without, emphasizing the functions and service of the bank from the customer's standpoint, rather than from that of the man within, the banker. Banking technique is studied as a product of the demand for service on the part of business. Stress is placed on the use of acceptances, foreign and domestic, and upon foreign exchange. The course is fundamental for any commerce student. Folts. *Four hours, fall or winter terms.*

117. INVESTMENT BANKING. An advanced course for students of investment or commercial banking. Deals primarily with the organization and function of the investment banking institution and the marketing of investment securities. Enrollment will be limited and preference will be given to students who have completed the courses in Business Finance and Salesmanship. Prerequisite, Courses 114 a and b, 115. Folts.

Three hours, winter term.

119a, b, c. ADVANCED INVESTMENTS. Advanced work in investment problems. Enrollment limited to students who are capable of doing work of an advanced nature. Pre-requisites, Investments 114a, b and Brokerage 115. Credit given for any term. Folts. *Three hours, each term.*

120. FOREIGN BANKING. An advanced course for students in Banking and Commerce, Foreign Trade and Prefessional Accounting. This course covers the essential work in foreign banking practice, foreign exchange and foreign investment, all from the point of view of the business man. Pre-requisite, Economics of Banking, 5. Folts. *Three hours, spring term.*

121a, b, c. SEMINAR IN BUSINESS FINANCE.
Hours to be arranged.

122 a, b, c. MERCHANDISING. (a) The general methods and problems of marketing raw materials, including a study of market analysis and distribution of commodities from the manufacturer to the consumer, including the organization and interrelation of the various types of agencies.

(b) Based upon 122a, but dealing more especially with the distribution systems in its relation to the development of the retail store, specialty store and department store. The purpose of the course is to describe the retail business as it is aud to point out the broad lines upon which retailing progress is being made.

(c) The third term in merchandising takes up the subject of marketing, using problems to illustrate specific points developed by analysis and discussion. These problems are based on actual business experience and deal with the conditions determining demand, retail trade, wholesale trade, various trade markets and price policies. Whittaker. *Four hours, each term.*

126. PURCHASING. A study of the organization and operation of the purchasing departments, both wholesale and retail, and the duties and functions of the purchasing agent. Hogan.
Three hours, spring term.

127 a, b, c. SALESMANSHIP AND SALES MANAGEMENT. (a) The first two terms of this course are given with two purposes—to develop salesmen and to train all undergraduates and graduates who

desire to increase their own personal efficiency. The first term deals primarily with a study of the basic principles underlying the sale, such as the mind of the salesman, the mind of the buyer, the pre-approach, the approach, the demonstration and the closing.

(b) The second term puts a particular emphasis on the various types of sales, such as the selling of insurance, bonds, etc. Actual sales are held in class in which the class analyzes both the salesman and the buyer, and thus sees how the principles are applied in actual sales.

(c) The third term, Sales Management, logically follows Salesmanship. It deals with the relations of the sales department to other departments in a business, the relation to customers, market analysis, determination of the selling points of the product, sales organization, selection, training and paying of salesmen; management of sales force; and policies in regard to guarantee, cancellations and return goods. In order to make this course practical, actual sales management problems will be taken up in class discussions. Whittaker. *Four hours, each term.*

128. Advanced Problems in Salesmanship. This course includes work in salesmanship problems and is of a research nature. Only students with special ability in this field, who are particularly interested in the selling phase of business will be enrolled. Whittaker. *Hours to be arranged, spring term.*

129a, b. Elements of Business Advertising. A study of the methods of advertising practiced in industrial and retail business, the principles involved in the construction of advertisements, including type arrangements, color, media and layout. Particular stress is put upon the elements involved in the description of advertising campaigns and their relation to the different systems of merchandising and selling. *Three hours, fall and winter terms.*

129c. Advanced Problems in Business Advertising. Open only to students who have had Elements of Business Advertising. The student taking this course selects a given field in which he expects to engage and applies the principles learned in Elements of Business Advertising. Designed especially for those students who are majoring in merchandising and salesmanship.

Hours to be arranged, spring term.

130. Advanced Problems in Merchandising. An advanced study in the problems of merchandising and marketing methods. Special research work forms the major part of this course. Whittaker. *Spring term.*

131 a, b, c. Seminar in Marketing and Selling.
Hours to be arranged.

132. Office Organization and Management. The principles of organization and management as applied to the office. The elements of office organization, office management, office records and systems. A special study of the office manager as an executive and his qualifications. McManus. *Four hours, one term.*

133. Factory and Plant Management. This course deals with the various problems met in a manufacturing plant, such as types of organization, methods of securing maximum output, wage systems, purchasing problems and includes a brief study of typical manufacturing industries. (Not given 1921-22). *Four hours.*

134. Credits and Collections. The forms and classes of collection credit machinery; the sources of credit information; methods of collection and legal remedies of the creditor. Hogan.
Four hours, fall term.

136 a, b, c. Traffic Management. A study of rate zones, construction points, principles, traffic geography; application, construction, interpretation of classifications; construction application and output of tariffs; special freight services; railroad traffic departments and industrial traffic departments.
Four hours, each term.

137 a, b, c. Seminar in Transportation.
Hours to be arranged.

138 a, b, c. Insurance. A course dealing with several forms of insurance.

(a) Life Insurance. The uses and forms of life insurance policies; the practical and theoretical principles underlying mortality tables; rate making; loading; reserves; surplus; legal interpretations; policies; organization; agency and policies of frater-

nal, business assessment; stock and mutual companies and the relation of insurance to the credit fabric. Pre-requisite, Principles of Economics. Hogan. *Four hours, fall term.*

(b) FIRE INSURANCE. A study of fire insurance in its theoretical and practical aspects. Special emphasis is placed upon the study of the fire insurance laws of Oregon, and the organization and management of fire insurance companies in this state. Hogan. *Four hours, winter term.*

(c) MARINE INSURANCE. A brief comparison of marine insurance with other systems of indemnity, the history of marine insurance, its development in the United States, organization and purpose of Lloyd's types of policy contracts, nature of the risk and perils insured against, special agreements, etc. (Not given 1921-22). *Four hours.*

139. EXECUTIVE MANAGEMENT. Executive Management seeks to familiarize the student with the values and characteristics of the complex problems of the executive manager, to further his training in systematic methods of investigating such problems and to provide a sense of relative values. Among the topics covered are the launching of industrial enterprises, location, layout of manufacturing plants, equipment and buildings, practical types of organizations, empoyment of labor, etc. (Not given 1921-22). *Four hours.*

140. REAL ESTATE. This course deals with the business problems connected with the sale, purchase and management of real estate. The following topics are included in this study: Real estate, brokerage, contracts to real estate, liens, taxes and assessments, the transfer of titles, deeds, bonds and mortgages, leases, methods of arriving at the vauation of real estate, surveyors' relations to real estate and the work of the architect, land registration. (Not given 1921-22). *Four hours.*

142. BUSINESS STATISTICS. This is a study of advanced statistics in which the student is taught to interpret social data by statistical methods. Major attention is given to the proper evaluation of graphs and charts and their use in presenting information relative to business. Rutter. *Three hours, fall term.*

144. Law of Contracts. Formation of contracts, including capacity of parties to contract, offer, acceptance and consideration, legality and form; interpretation of contracts; operation of contracts; discharge of contracts. Decker. *Four hours, fall term.*

145. Law of Sales of Personal Property. Subject matter of sale; executary and executary sales; bills of lading and the effect thereof on the title to the goods; seller's lien and right of stoppage in transit; fraud; warranty and remedies for breach of warranty, statute of frauds. Hale.
Three hours, fall or winter term.

146. Law of Agency. Scope, nature and formation of relationship of principal and agent, rights and obligations between principal and agent, agent and third party, principal and third party; termination of relationship. Prerequisite, Contracts 144. R. J. Miller. *Two hours, winter term.*

147. Law of Partnerships and Corporations. The general nature and formation of partnerships, the natural rights and obligations of partners, the relation of the partners to third persons and dissolution of the partnership. The forms of corporations, directors and administrative officers, stocks and the rights of stockholders and foreign corporations. *Three hours, spring term.*

148. Law of Bills and Notes. A comparison of simple contracts with negotiable instruments (contracts) with the object of developing the fundamentals of form made and effect of negotiation and rights and liabilities of parties. Case work. Prequisite, Contract 144. Decker. *Three hours, winter term.*

149. The Law of Competition. Dealing with combinations of labor and capital, strikes, boycotts, monopolies; the doctrine of conspiracy; unfair methods of competion, imitation of competitor's goods, etc. Warner. *Three hours, winter term.*

159 a, b, c. Seminar in General Business.
Hours to be arranged.

II. Foreign Trade

164 a, b, c. Principles of Foreign Trade. A analysis of the principles underlying successful foreign trade from the stand-

point of the individual, manufacturer, exporter and importer. Considerable attention is given to the study of the various commercial agreements between nations. This course is indispensable to any one expecting to follow any line of work in foreign trade. It normally precedes work in Technique of Foreign Commerce.
Four hours, each term.

165 a, b, c. TECHNIQUE OF FOREIGN COMMERCE. (a, b) This course deals with the technical information of overseas business, i. e., the proper methods of making out shipping papers, quoting prices, writing letters, etc. This work will be made as practical as possible and the student actually handles full sets of the necessary papers, such as bills of lading, export invoices, certificates of origin, etc.

(c) The third term, Ports and Terminals is an economic study dealing with the operation of seaports; their equipment; influence of the interior on the port; and the part proper equipment plays in the distribution of goods. Special attention will be given to ports of the Pacific Coast and the various dock systems. Lomax. *Four hours, each term.*

167. RESOURCES OF PACIFIC NORTHWEST. A study of the hinterland of the states of Oregon, Washington and Idaho; the products originating in this territory; the extent of production and shipment of these products; markets in which the materials are consumed and their relation to overseas commerce. Lomax.
Two hours, fall term

169a, b, c. ADVANCED WORK IN FOREIGN TRADE. Rutter.
Four hours, each term.

170 a, b, c. SEMINAR IN FOREIGN TRADE. *Hours to be arranged.*

III. PROFESSIONAL ACCOUNTING

180. ACCOUNTING THEORY AND PRACTICE. This course is planned for the students majoring in accounting, or those students who wish to gain a better knowledge of the accounting profession. It is intended to present the underlying theory on which the accounting records and statements are based. Special study is given to statements of affairs, capital and revenue expenditures, depre-

ciation, analysis of profits, receiverships, branch house accounting, estate accounts, balance sheet construction, investments, foreign exchange and many other problems connected with business of today. Required of all accounting majors. Pre-requisite, first and second year accounting. McDougle.

Five hours, fall and winter terms.

181 a, b. Advanced Accounting Theory and Practice. A comprehensive study of the fine points in accounting theory and technique of practice. The student is expected to do a certain amount of research work. Such subjects will be discussed as actuary science, sinking funds, reserves, capital stock, funded debt, contingent items, suspense accounts, interpretation of statements, corporations, mergers, consolidations, etc. Pre-requisites, Accounting Theory and Practice, Business Finance, and Technical Law prescribed by instructor. Open to advanced undergraduates and graduates. McDougle. *Five hours, winter and spring terms.*

182. Advanced Cost Accounting. This course is designed to meet the needs of the students in the accounting field who may wish to specialize in cost work and for the benefit of the general auditor. An intensive study will be made of basis of cost, cost control, cost records, inventories, payrolls, stock, flow of costs, materials, overhead burden and distribution, analysis of expenses, factory records, factory organization, financial and cost statements and exhibits, accounts, reports and systems. The different theories of cost will be discussed and their practical values will be shown. Lectures, text assignments, library references, charts, problems and general class discussion required. Required of all Accounting majors. Open to advanced undergraduates and graduates. Pre-requisites, Principles of Economics, Accounting Theory, Business Organization. McDougle. *Five hours, spring term.*

183 a, b, c. Auditing. A study of the methods and procedure in connection with detailed, continuous and balance sheet audits; details in arrangement of working papers and carrying out an audit for business concerns. It is presumed that the underlying theory of accounts is well understood and that the student will be able to apply these theories. Text assignments, library references, a complete audit with all working papers and report, short prob-

lems, C. P. A. questions and problems, quiz work and class discussions. Pre-requisite or parallel, Advanced Accounting Theory and Law as prescribed by the instructor. Open to advanced undergraduates or graduates. Bolitho. *Five hours, each term.*

184. ACCOUNTING SYSTEMS. This course includes the practical application of all the accounting courses, giving the student opportunity to express himself in the construction of accounting systems for both small and large business concerns. The student writes the procedure for installing accounting systems, methods of controlling general and branch store systems, factory cost systems. Special business concerns are studied and systems worked out to fit peculiar situations, as well as standard business practices. The school attempts to meet the demands of the modern business men by doing research work and establishing systems to meet the particular needs of the various kinds of business enterprises. The University reserves the right to publish the results of any research work done in this or other classes. Pre-requisites, Advanced Accounting Theory and Practice. Open to advanced undergraduates and graduates. McDougle. *Five hours, spring term.*

185. ETHICS OF THE ACCOUNTANT. A study of business ethics as followed by the reputable accounting firms and of the proceedings of the American Institute of Accountants. This course is based on library references and other material which is collected from time to time. The student is required to do research work and to form opinions on subjects involving questionable business ethics, as well as learning the rules of the best practice. Bolitho. *Two hours, one term.*

186 a, b, c. SEMINAR IN ACCOUNTING. *Hours to be arranged.*

190a, b, c. GENERAL SEMINAR IN COMMERCE. For seniors and graduates only. Staff. *Two hours, each term.*

GRADUATE DIVISION

200 a, b, c. C. P. A. PROBLEMS AND SOLUTIONS. This course is an intensive study of the problems and questions asked by the examining boards of the various states as well as the American Institute of Accountants' examinations. The student is

given extensive practice in the solution of numerous problems. The problems are so selected that the student is trained to analyze correctly and gain correct form and desired speed in solving difficult problems, involving a knowledge of partnerships, executors' accounts, corporation accounts, revenue accounts, fire insurance, real estate accounts, manufacturing cost accounts, mergers, reorganizations, statement of affairs, realizations and liquidations as well as law, income tax procedure and auditing. Prerequisite, graduate standing with adequate preparation to be determined by the instructor; Advanced Theory and Practice. Bolitho. *Five hours, each term.*

201 a, b. INCOME TAX PROCEDURE. An intensive study is made of the income and excessive profits tax laws of the United States. The student will be required to solve many problems involving personal, partnership and corporate returns. A thorough study is made of the forms, law, regulations, treasury decisions, involving all the modern points of law as well as decisions and rulings which affect business at present.

Pre-requisite, graduate standing, Advanced Accounting Principles, or equivalent practical experience. Bolitho.

Five hours, fall and winter terms.

202. REPORT WRITING. This course provides special training in the technique of good accounting reports as well as how to make proper analysis of audit papers. The styles and forms of many large firms will be studied so that the student will be familiar with the many forms in use. The ability to form correct conclusions and give sound business advice from data given by audit papers is essential to the professional accountant.

Problems and research work, class discussions, report writing and library assignments will form the major part of this work.

Prerequisites, Graduate Standing, Auditing, Advanced Accounting Theory and Practice. Bolitho.

Three hours, spring term.

203 a, b, c. GRADUATE SEMINAR IN ACCOUNTING. Seminar and research in accounting. *Each term.*

210 a, b, c. GRADUATE SEMINAR IN GENERAL BUSINESS. Seminar and research in the problems of general business.
Each term.

215 a, b. c. GRADUATE SEMINAR IN FOREIGN TRADE. Seminar and research in foreign trade. *Each term.*

CHEMISTRY

Professors *STAFFORD, SHINN; Assistant Professors WILLIAMS, TANNER; Instructor WHITMAN; Graduate Assistants SKIDMORE, TRUESDAIL

Students making chemistry their major subject should include in their lower division program either Course 4 or 7 in physics and in mathematics, Courses 2, 3, 4 and 7. Courses leading to a reading knowledge in either French or German are strongly advised.

LOWER DIVISION

1a, b, c. GENERAL CHEMISTRY. An introduction to the study of chemistry. A previous course in physics, in high school or university, is prerequisite. Three lectures, one laboratory and one quiz period. No credit for less than two terms' work. Shinn, Tanner. *Five hours, each term.*

3a, b, c. ANALYTICAL CHEMISTRY. (a) Qualitative analysis. (b) Gravimetric analysis. (c) Volumetric analysis. One lecture and three laboratory periods. Whitman.
Four hours, each term.

4a, b. ORGANIC CHEMISTRY FOR MEDICAL STUDENTS. A more elementary course than 105, designed especially for second year students in medicine. Williams.
Four hours, fall and winter terms.

7. PHYSICAL CHEMISTRY FOR MEDICAL STUDENTS. A non-mathematical presentation of the fundamentals of the subject for third year students. Shinn. *Four hours, fall term.*

*On leave of absence for research work in 1921-22.

UPPER DIVISION

105a, b, c. ORGANIC CHEMISTRY. Three lectures and one laboratory period. Williams. *Four hours, each term.*
No credit will be given for less than two terms work in Course 105.

106a, b, c. ADVANCED INORGANIC CHEMISTRY. The subject is handled largely from the point of view of the periodic table, the chemistry of the rarer elements being emphasized especially. Two lectures per week. Tanner. *Two hours, each term.*

112a, b, c. ADVANCED ANALYTICAL CHEMISTRY. The student may select work in the following subjects: water analysis, food analysis, electro analysis and spectroscopic analysis. Whitman. *Three or four hours, each term.*

116a, b, c. PHYSICAL CHEMISTRY. Three lectures and one laboratory period. Shinn. *Four hours, each term.*

118. ELECTROCHEMISTRY. Two lectures and one laboratory period. Stafford. *Three hours, winter term.*

119. ADVANCED PHYSICAL CHEMISTRY. Special topics to be determined by the interests of those enrolled. Stafford. *Three hours, winter term.*

120a, b. ADVANCED ORGANIC CHEMISTRY. Special topics are dealt with in more detail than in the elementary course, such as tautomerism, directed valence forces, stereochemistry of benzene and of the sugars, constitution of the proteins and enzyme action. In the laboratory special stress is placed on laboratory technique. Williams. *Three hours, winter and spring term.*

121. SANITARY CHEMISTRY. The chemistry of water purification, sewage treatment, preservation of foods. Stafford. *Hours to be arranged, spring term.*

GRADUATE DIVISION

201. RESEARCH AND THESIS LABORATORY. Students are assigned to suitable problems for investigation under the supervision of a member of the staff.

205. SEMINAR. The Staff.

DRAMA AND THE SPEECH ARTS

Professor REDDIE; Instructor BANFIELD; Mr. THOMPSON

LOWER DIVISION

1a, b, c. DRAMATIC INTERPRETATION. Open to freshmen or others. A practical training in pronunciation, enunciation, platform manner, gesture, make-up, and character interpretation, the fundamentals of free expression, the elimination of mannerisms, restraint and self-consciousness. Only fifteen students admitted to any section. Three hours class work for one hour of credit. Banfield and assistants. *One hour, each term.*

51a, b, c, DRAMATIC INTERPRETATION. Second year. Open to those who have passed course 1 with a grade of III or over, or by examination. Advanced character study, pantomine, history of costume, period decoration for stage purposes, musical, lighting and color effects, stage management, properties and make-up. Enrollment limited to fifteen in any section. Presentation of one-act plays. Banfield and assistants. *Four hours, each term.*

52a, b. TECHNIQUE OF THE SPEAKING VOICE. Tone production with cultural spoken English as its goal. The anatomy of the speech producing organs and the resonating cavities, and their relation to the properties of vocal sound. Class limited in number. Prerequisite: consent of instructor. Reddie.
Three hours, fall and winter terms.

UPPER DIVISION

101a, b. TEACHERS' COURSE IN PLAY PRODUCING. For those who may be called upon to organize and produce plays, pageants, etc. Interpretation of character, costuming, make-up, and general stagecraft. Banfield. *Two hours, fall and winter terms.*

102. DRAMATIZATION. Open to those who have passed 101 with a grade of III or over. The arrangements of stories for

dramatic production, the organization of material used for pageants, community celebrations, etc. Reddie.

Two hours, spring term.

103a, b, c. STAGECRAFT. A practical course in scene design, stage decoration, lighting and management. Reddie.

Two hours, each term.

113a, b, c. ADVANCED STAGECRAFT. For senior students. Reddie. *Two hours, each term.*

151a, b, c. THE COMPANY. Open to Junior students who have passed course 51 with a grade of III or over, or upon examination. This is the operative class in the acted drama, and the members are regularly engaged in the production of plays. Membership limited to twelve. Reddie. *Five hours, each term.*

161a, b. THE COMPANY, ADVANCED. Open to seniors who have passed 151 with a grade of III or over. Advanced study of the acted drama. Students in this class are given the opportunity of assuming responsible roles in public performances and of directing plays. Membership limited to twelve. Reddie.

Five hours, each term.

GRADUATE DIVISION

201a, b, c. INTERPRETATION OF SHAKESPEARE. For graduate students or qualified seniors. Especial emphasis is placed upon tonal quality and rhythm of action in their relation to the subject matter, as well as the value of color and form in background and costume as indispensable assets in the translation of poetic ideal to the audience mind. Reddie. *Three hours, each term.*

202. ADVANCED TECHNIQUE OF THE SPEAKING VOICE. Senior or graduate standing, with course 52 parallel or prerequisite. Class limited in number. Reddie. *Three hours, spring term.*

203a, b, c. SEMINAR. For graduate students or seniors who have maintained a grade of I in this department for one year prior to registration in this course. Reddie.

Two hours, each term.

ECONOMICS

Professors GILBERT, CROCKATT; Assistant Professors CAMERON, R. M. MILLER; Instructor HOEBER.

Students planning to make their major subject Economics should include in their lower division selection of courses, those numbered 1 and 3a, b.

LOWER DIVISION

1. ECONOMIC HISTORY. This course aims to trace the evolution of economic institutions from their simpler forms to the more complex systems of our own time. It deals with forms of land tenure, systems of labor, the guilds, the industrial revolution, the growth of the factory system, the evolution of banking, improvement of transportation and the emergence of labor problems and those connected with large scale production. Cameron. *Four hours, any term.*

3 a, b. THE PRINCIPLES OF ECONOMICS. The principles that underlie production, exchange and distribution are analyzed and applied. Practical problems like monetary and banking reform, regulation of international trade, the taxation of land values, labor movement, regulation of railways, the control of the trusts, etc., are considered. Pre-requisite sophomore standing. No credit for one term of work. Gilbert. *Four hours, fall and winter terms.*

4. ECONOMICS OF BUSINESS ORGANIZATION. This course deals with the evolution of business units such as the partnership, joint stock concern and the corporation. Special attention will be given to the organization, financing and promotion of corporations and the advantages and disadvantages of the corporate form of organization from the standpoint of industrial society. Pre-requisite Courses 3a and 3b. Cameron. *Four hours, spring term.*

UPPER DIVISION

105. LABOR PROBLEMS. Treats of the conditions under which laborers work since the advent of the industrial revolution. Topics especially emphasized are: child labor, immigration, strikes and lockouts, industrial arbitration, social insurance, remedial legislation, etc. Open to students who have taken Principles of Economics or Principles of Sociology. *Four hours, spring term.*

106. Organized Labor. Study of the history of the labor movement, the aims, methods and policies of trade unions, conservative and radical. Students are required to interpret the philosophy of unionism and evaluate the significance of the labor movement. Prerequisite, Labor Problems. *Four hours, fall term.*

107. Labor Legislation. A detailed study of some problems facing the employee, employer and the public, which call for regulation through public authority. The course considers how far such legislation is consistent with the interests of all classes concerned. *Four hours, winter term.*

108. Social Insurance. Miller. *Four hours, spring term.*

113. Money, Banking and Economic Crises. The principles of money, the laws controlling its value, methods for measuring price levels and devices for stabilizing the purchasing power are considered. The monetary history of the United States and the present monetary system are treated. Principles underlying sound banking and the use of credit are analyzed and the history causes and remedies for crises and panics are discussed. Prerequisite, Principles of Economics. Gilbert.
Five hours, spring term.

115a, b. History of Economic Thought. The evolution of economic doctrines from the Greek and Roman period to the more advanced ideas of today will be considered and the relation to contemporary economic conditions indicated. Special attention will be given to the classical school and the transmission and criticism of their theories by subsequent writers. Prerequisite, Principles of Economics. Cameron.
Three hours, winter and spring term.

118 a, b. Public Finance. The aim of this course is to ascertain sound principles affecting public expenditure, the raising of revenue, budgetary legislation, financial organization and the use of the public credit. Various forms of taxes are considered and a constructive plan for fiscal reform outlined. At all points special consideration will be given to Oregon problems. Prerequisite, Principles of Economics. No credit for one term. Gilbert. *Four hours, fall and winter terms.*

123. Trusts and Industrial Combinations. This course deals with the evolution of industrial combinations, the economics of concentration and the evils of combination from the standpoint of investor and the public. The attempts at regulation by state and federal authority are considered and plans for safeguarding the public interest are outlined. Prerequisite, Principles of Economics. Cameron. *Five hours, fall term.*

124. Government Control of Natural Monopolies. This course aims to consider sound lines of policy in regulating, controlling or owning natural monopolies or public utilities other than steam railways. Special attention will be given to municipal ownership in America and Europe and the economic and political problems incidental thereto. Prerequisite Principles of Economics. Cameron. *Five hours, winter term.*

125. Modern Industrial Tendencies. Cameron.
Five hours, spring term.

135. Railways and Rate Regulation. The study of transportation by land as a factor in modern economic life, the tendency toward combination and the problems of discriminating rates will be treated. Special consideration is given to the principles underlying rate making, public regulation, war time control and government ownership. Prerequisite, Principles of Economics. *Five hours, winter term.*

141. Conservation of National Resources. An inventory of our resources in mineral wealth, water, soil, timber, etc., will be taken and practices which lead to waste and extravagance will be considered. An effort will be made to develop sound lines of public policy which will arrest needless waste, promote restoration and encourage conservation. Prerequisite, Principles of Economics. Gilbert. *Three hours, spring term.*

162. International Trade and Trade Policies. The principles underlying international trade and its effects on the industrial life of trading nations will be examined and the advantages of international trade discussed. Special attention will be given to the trade policies of America, England and Germany and the effect of the war on future trade policies of the nations. Prerequisite, Principles of Economics. Crockatt.
Five hours, spring term.

163. PRINCIPLES OF OCEAN TRANSPORTATION. The history of the ocean carriers is studied as an introduction to the underlying principles of the present problem of the merchant marine and ocean traffic. Special attention is given to subsidies and aids and the regulation of ocean commerce and transportation. Prerequisite, Economic History and Principles. Crockatt.

Five hours, winter term.

GRADUATE DIVISION

201, 202, 203. RESEARCH IN ECONOMICS. Original work for thesis purposes. Gilbert. *Each term.*

210, 211, 212. ECONOMICS SEMINAR. *Each term.*

EDUCATION

Dean SHELDON; Professors DEBUSK, DOUGLASS, GREGORY, STETSON; Graduate Assistants LEHMAN, LANE, NORTHRUP.

The state school law prescribes 22 term hours of Education courses for the certificate for high school teachers. The prospective teacher should take, preferably in the sophomore year, courses 51, 52, 53, which are prerequisite to all other courses in the department.

The following pedagogical courses, offered by other departments, may be taken to satisfy not more than six of the hours required for the certificate, but these courses do not count toward a major in education.

Art and Architecture 191a, b, c. Pedagogy of Art.
Botany 112. Pedagogy of Botany.
Drama and the Speech Arts 101a, b. Teachers' Course in Play Producing.
English Literature 175. Teaching of English Literature.
Rhetoric and American Literature 152a, b. Teaching of English Composition.
Geology 104. Physiography (Teachers' Course).
German 110. Teaching of Modern Languages.
History 102. Teaching of History.
Household Arts 102. Food Preparation for Social Workers (One term only).
Hygiene and Physical Education:
102. Playground Supervision.
104. Technique of Teaching.
105. Normal Instruction.
110. Theory and Practice of Physical Education.
151. High School Coaching.
Latin 111a, b, c. Latin Pedagogy.
Mathematics 101. Teaching and History of Mathematics.
Music 12a, b, c. Public School Methods.
Physics 101. History and Teaching of Physics.

Practice Teaching is counted toward the certificate only when the student is regularly registered in Education 107, Supervised Teaching.

LOWER DIVISION

51. An Introductory Course to Education. The aim of this course is to familiarize the student with the broader general aspects of the field of education. Approximately half of the time will be spent on subject matter of an informational nature dealing with the divisions of the field of education into higher institutions of learning, secondary schools, elementary schools, private schools, libraries, museums, the United States Bureau of Education, schools maintained by the national government, etc. About half of the time will be spent on the biological, psychological, and sociological principles of Education. Not open to freshmen. Gregory.

Three hours, fall or spring term.

52. History of Modern Education. This course includes the reading and discussion of the fundamental books in modern education such as Rousseau's Emile, Froebel's Education of Man, Spencer's Education, etc. Not open to freshmen. Sheldon.

Three hours, winter or spring term.

53. Educational Psychology. An introductory course dealing with the fundamental facts of psychology in relation to the learning process. Not open to freshmen. DeBusk.

Three hours, fall or winter terms.

UPPER DIVISION

105. High School Problems. This course deals with the practical problems which will be faced by the high school teacher, including particularly such topics as the following: the purposes of high school education; the support and control of high schools; types of schools and curricula; the high school constituency; the teacher as a factor in the organization of the school; problems of control and instruction; organization and control of school activities; the teacher's relation to the principal, the students and community; standards of efficiency for teachers; professional improvement. Open to juniors and seniors. Gregory.

Three hours.

106. Theory and Observation of Teaching. Theory and principles of the technique of instruction. Classroom phases of management. Readings, reports and class discussions supplemented by observations in the local high schools. A professional course in methods of teaching and class management in high schools. Required of all prospective high school teachers, and a prerequisite for supervised teaching. Open to students who have had Education 51, 52 and 53. Douglass.

Three hours, any term.

107a, b. Supervised Teaching. Practical work in the University High School, Eugene high school or other local high schools. Those enrolling for supervised teaching will be assigned a class for instruction for one high school semester. Application for classes should be made during the preceding term. Students will enroll for either fall and winter or winter and spring terms. Required of prospective high school teachers. Open to seniors who have had courses 105 and 106. Douglass.

Three to five hours.

107x. Educational Literature and Library Work. A study of high school library problems. Students by taking this course with 107a, b are enabled to secure two terms' work and credit in connection with practice teaching. Sheldon and Douglass.

Hours to be arranged, winter term

108. Civic Education. Points of approach and subject matter in the field of civics, economics and history, especially from the point of view of the junior high school. *Three hours, one term*

109. Methods in the Teaching of General Science. A consideration of the function, place and aims of general elementary science. The historical beginnings of the subject as indicating the reaction to certain weaknesses in special science instruction. The relation of general science to the junior high school. The project or problem method in relation to general science. Analytic and critical study of the various texts and manuals, and of several typical courses in prominent high schools. The matter of laboratory organization will receive the major attention. Readings in current literature and special reports.

151a, b, c. HISTORY OF AMERICAN EDUCATION. Lectures, reports and discussions treating the intellectual development of America with special reference to Education. Knowledge of American history a requisite. a. Colonial period, 1607-1775; fall quarter. b. Early national, 1775-1860; winter quarter. c. Recent period, 1860-1920, spring quarter. Open to seniors and graduates who have met the practice teaching requirement. Sheldon. *Three hours, each term.*

152. WORLD PROBLEMS IN EDUCATIONAL REORGANIZATION. A study of the educational expansion of Europe and America with special attention to primitive peoples and to conditions in the Orient. Sheldon. *Four hours, spring term.*

153. SOCIAL EDUCATION. A study of education in its social aspects, including primary social groups, the schools as a social group, psychology of leadership, etc. Students will be asked to observe, describe, and diagnose school situations arising in the field of discipline, school societies, playground, and amusement problems. Open to seniors and graduates who have met the practice teaching requirements. Prerequisite consent of instructor. Sheldon. *Four hours, fall term.*

154. EDUCATION AND ETHICS. A consideration of education from the point of view of the highest individual development. Includes a study of systems of moral instruction in France, Japan and elsewhere. The function of various social institutions in molding character. This course continues and supplements 153. Sheldon. *Four hours, winter term.*

155. EDUCATION SYSTEM OF OREGON. A study of the history and larger administrative problems of the state of Oregon. The course will consist of a few lectures outlining the field and of thesis topics, worked up by members of the class. Should be taken in connection with 151. Sheldon. *Two hours, each term.*

156. EDUCATIONAL CLUB AND SEMINAR. Reports of current educational meetings, book reviews, discussion of special topics investigated by members. Sheldon and departmental staff. *Two hours, each term.*

161. Psychology of Childhood. A study of the mental processes of the child with special emphasis on the changes that take place during learning. Open to students who have had Education 51, 52 and 53 or equivalent and to those students who are specially prepared for social service work. DeBusk.

Three hours, spring term.

162. Hygiene of the School Child. Growth and its disorders. The hygiene of learning. Preventive mental hygiene. Open to students who have had Education 51, 52 and 53 or equivalent and those regularly enrolled in preparatory medicine or physical education and hygiene. DeBusk.

Three hours, fall term.

163. Mental Tests. A survey of the literature of tests of value in the measurement of the intelligence of the child. Practice in mental testing and the treatment of results. Open to seniors and graduates who have had general psychology or Education 53 and 161. DeBusk. *Three hours, fall term.*

164. Exceptional Children. A study of the defective, delinquent, retarded and superior children. Their social and educational treatment. Open to seniors and graduate students who have had Education 163 or Psychology 108. DeBusk.

Three hours, winter term.

165. School Health Work. The problems involved in health supervision and examination and in the teaching of hygiene. Prerequisites, Education 51, 52 and 53 or equivalent. DeBusk. *Three hours, spring term.*

166. The School Plant. The physical environment of school children. Problems in the construction and sanitation of school buildings. Prerequisites, Education 51, 52, and 53 or equivalent. DeBusk. *Three hours, winter term.*

167. Hygiene of Learning. A study of physiological and environmental factors that affect the learning of the child. Prerequisites, Education 51, 52, and 53 or equivalent. DeBusk.

Three hours, spring term.

171. School Administration. State, county, town, township, and district organization. The school district and its problems of organization, administration, supervision, instruction and measurement. Reorganization of county and state school administration. Gregory. *Four hours, winter term.*

172. Educational Tests and Measurements. This course is designed to give the student a comprehensive view of the field of educational measurements. The use of tests and surveys will be taken up. Special study will be made of the need for measuring the materials, processes and products of education. Literature dealing with conferences on educational measurements will be discussed. The advantages and limitations of tests will be given special attention. Enough of the mathematics will be given to understand measures of central tendency and measures of variation. Gregory. *Four hours, spring term.*

173. Organization of Common School Curricula. Principles underlying the development of the course of study. The content of the course of study. The scientific determination of what we shall teach with special reference to spelling, reading, United States History and arithmetic. Evolving curricula from the functional point of view; from other points of view. Quantitatively determining the materials of instruction. Gregory. *Four hours, spring term.*

174. Grading and Evaluating the Materials of Instruction. This course seeks to discover the underlying principles for grading and evaluating the materials of instruction for the elementary school. The biological, psychological and sociological principles governing grading will be given special attention. An attempt will be made to discover not only what principles are now operative in grading the materials of instruction but what principles ought to govern such procedure. This is a library course and presupposes a general acquaintance with educational literature. Gregory. *Four hours, one term.*

175. Statistical Methods Applied to Education. This is the method of statistical analysis. The mathematical formulae applied to educational measurements will be developed. Much drill in reading and interpreting statistics will be given. Enough problems will be assigned to develop the technique of the sub-

ject. Drill will be given in the graphic representation of results. Gregory. *Four hours, one term.*

181. High School Administration and Supervision. This course will deal directly with such problems as the following: Organization of the school for instruction and for socialization; teacher and pupil assignments; school finances; standardizing routine; problems of health; publicity, and community relations; equipping the school; the principal as supervisor; teachers' meetings; measuring school efficiency; school morale; the high school and other institutions. Stetson. *Three hours, one term.*

182. Measurement in Secondary Education. A study of the construction and desirable uses of various standard tests and scales for measuring achievement in secondary school subjects. Such elements of statistical method will be given as are necessary for intelligent use of the tests. Stetson. *Three hours, one term.*

183. Advanced Course in High School Teaching. Planned for students with teaching experience and for those who may later become supervisors or administrators. Deals critically with recent tendencies in technique of teaching. Classroom organization, pupil participation; teaching how to study; project teaching; standardized grading; use of community resources in instruction; the experimental attitude in teaching. Stetson. *Three hours, one term.*

184. The Junior High School. The causes leading to the development of the junior high school; the special purposes and opportunities of this type of school; problems of organization and administration; curriculum building; provisions for individual differences; instruction; exploration and guidance; school activities. Typical junior high schools will be studied. Stetson. *Three hours, one term.*

GRADUATE DIVISION

201a, b, c. Problems in the History of Nineteenth Century Education. A technical course involving the preparation and historiography dealing with special problems in the field of English and American education during the nineteenth century. The library is equipped with the requisite sources of material for the study of: a. Educational history of Oregon; b. History

of Methods and Ideals in American Education; c. History of state education in Great Britain during the nineteenth century. Sheldon. *Three hours, each term.*

202a, b, c. ADVANCED EDUCATIONAL PSYCHOLOGY. The psychology of endowment, of learning and of individual differences. DeBusk. *Three hours, each term.*

203a, b, c. PROBLEMS IN SCHOOL ADMINISTRATION. The problems to be selected will depend upon the previous training and future plans of the students taking the course. Each student will be expected to work at some phase of school administration which will not only make him an authority in that field but will also make a contribution to the facts and data now extant. Open only to students with at least one years' graduate training who have had courses 171, 172, 173, or their equivalents. Gregory. *Two hours, each term.*

204. EXPERIMENTAL PROBLEMS IN TEACHING. A research course in investigation of problems and methods of instruction. Douglass.

205. RESEARCH COURSE IN SECONDARY EDUCATION. Open only to qualified graduate students who wish to do constructive work or carry on investigations in the secondary field. Due emphasis will be given to methods of procedure in research. Stetson. *Three hours, each term.*

206. RESEARCH IN EDUCATION. Research problems in elementary education. Gregory.

207. RESEARCH IN EDUCATION. Problems in educational hygiene. DeBusk.

208. CURRICULA IN GEOGRAPHY AND UNITED STATES HISTORY. The scientific determination of the materials to meet the aims of education in geography and United States history. Study and criticism of aims, processes and results. Comparison of courses now extant with aims. The development of methods and actual gathering of materials for different phases of these subjects. Individual problems after a technique is developed. Open to students with one year graduate standing or equivalent, who have had courses 171, 172, 173 in education. Gregory. *Three hours, fall term.*

ENGLISH

English Literature

Professors Howe, Perkins, Watson;
Instructors Norma Solve, Bell

Major students should include in their lower division program, Outlines, and Wordsworth, and if possible, at least a term of Shakespeare. An acquaintence with English history is indispensable.

LOWER DIVISION

1, 2, 3. Outlines of English Literature. From Edmund Spenser to the present. Each epoch is studied by the reading of representative authors, supplemented by lectures and interpreta tive readings. First term, sixteenth and seventeenth century authors. Second term, eighteenth century authors, and those of the first quarter of the nineteenth century. Third term, from 1830 to the present. Courses in sequence, but may be taken independently. Watson, Solve. *Three hours, each term.*

25. Wordsworth. A study of the best poems of the author, in such order as to illustrate the power, scope, and characteristic beauty of this poet. Introductory to all poetry courses in this department. Howe. *Three hours, spring term.*

30. William Morris. A study of the life and writings, both prose and verse. Howe. *Three hours, winter term.*

50, 51, 52. Shakespeare. Study of the important historical plays, comedies and tragedies. Courses in sequence, but may be taken separately. Watson. *Three hours, each term.*

60. History of the English Language. The development of the English language from the Anglo-Saxon period to the present. The historical basis of the English grammar, spelling, pronunciation and usage. Perkins. *Three hours, fall term.*

UPPER DIVISION

101, 102, 103. English Poetry. Fall term, the shorter classics. Winter, the old ballads. Spring, twentieth century poems. Howe. *Three hours, each term.*

110. SHELLEY. His more important works in their order as written, with attention to his importance both as philosopher and as poet. Howe. *Three hours, winter term.*

115. BROWNING. The Ring and the Book and the important shorter poems. The aim is to give the student facility in reading Browning understandingly, and to acquaint him with the author's outlook on life. Solve. *Three hours, spring term.*

120. CHAUCER. As much of Chaucer's work is read as time permits, with careful attention to his sources of material, poetical forms, pronunciation and grammar. Perkins.
Three hours, spring term.

125. MILTON. Paradise Lost entire, and the minor poems. Watson. *Three hours, one term.*

128. THE CLASSIC POETS. Dryden, Pope, to Samuel Johnson. Perkins. *Three hours, spring term.*

130. THE ROMANTIC POETS. Scott, Coleridge, Southey, Wordsworth, Byron, Shelley, Keats, Hunt, Landor. Solve.
Three hours, fall term.

135. THE VICTORIAN POETS. Tennyson, Browning, Barrett-Browning, Rossetti, William Morris, Swinburne, Matthew Arnold. Solve. *Three hours, winter term.*

136. ANGLO-SAXON. Grammar and translation of selected passages. Bright's Anglo-Saxon reader will be used. Two years of German a prerequisite. Perkins.
Three hours, fall and winter terms.

140, 141, 142. ENGLISH DRAMA. Fall term, Elizabethan drama; winter, Restoration, Eighteenth Century and Romantic Drama; spring, Victorian and Recent Drama. Solve.
Three hours, each term.

145, 146, 147. ENGLISH PROSE WRITERS (NOT NOVELISTS) OF THE NINETEENTH CENTURY. De Quincey, Lamb, Hazlitt, Carlyle, Ruskin, Mill, Huxley, Matthew Arnold, Pater. Courses in sequence, but may be taken separately. Solve.
Three hours, each term.

150, 151, 152. English Prose Writers of the Eighteenth Century. Gibbon, Burke, Samuel Johnson, Boswell, Hume and others. Howe. *Three hours, each term.*

155, 156, 157. Living English Writers. Kipling, Shaw, Wells, Arnold Bennett, Galsworthy, Chesterton, Granville Barker, St. John Hankin, Dunsany, Davies, W. H. Hudson; poetry, essay, short story, drama, and novel. Courses in sequence, but terms may be taken separately. Howe. *Three hours, each term.*

160, 161, 162. Contemporary European Literature. English in its relation to other European literatures, to Ibsen, the Russians, Maeterlinck, and others. Howe. *Three hours, each term.*

165. Forerunners of Romanticism. A study of the romantic motive in the Eighteenth Century. Ossian, Blake, Burns. Watson. *Three hours, winter term.*

170a, b, c. History of English Literature. This course, planned for honor students and intending teachers, is advised for junior year. Solve, Perkins. *Three hours, each term.*

175. Teaching of English Literature. Lectures, papers and conferences. Required of all who expect to teach English. Should be taken in junior year, preparatory to practice teaching in senior year. Howe and Solve. *Five hours, spring term.*

185, 186, 187. Representative English Novelists. Richardson, Fielding, Smollett, Scott, Jane Austen, Dickens, Thackeray, George Eliot, Meredith, Hardy. Watson. *Three hours, each term.*

190, 191, 192. Social Problems in the English Novel. Miss Edgeworth, Dickens, Kingsley, and other nineteenth century and contemporary novelists who have made the novel the vehicle of social criticism. Watson. *Three hours, each term.*

GRADUATE DIVISION

201. Survey of the English Critics. Howe. *Three hours, each term.*

205. Seminar. For graduates and honor students. Problems in research. Howe. *Three hours, winter and spring terms.*

210. The Philosophical Foundations of English Literature. Selections from Bacon, Hobbes, Locke, Berkeley, Hume, the Deists, the Economists, the Utilitarians, the Evolutionists and the Pragmatists will be read by the class. Watson.

Three hours, each term.

WORLD LITERATURE

Professors Bates, Howe

World Literature is a two-year course intended for sophomores and juniors. The first year is given for the first time in 1921-22, in which year seniors also will be admitted. World Literature may not be taken in units of less than one year. No credit otherwise. The first year proceeds from the beginnings of literature to the end of the renaissance period; the second year will continue to the present.

99a, b, c. World Literature (First Year.) Chinese, Japanese, Hindu, Hebrew, and Persian Literature. Literature of the Aegean Islands; the Periclean age in Athens; the Greek decadence; the Roman republic and the empire; Celtic and Teutonic mythology; Romantic cycles; Provencal poetry; Dante and Chaucer; The Renaissance in Italy, Spain, France, and England. Consultations with students by groups. Fall term, Howe. Winter and spring terms, Bates.

Two hours, each term.

100a,b,c. Second Year. Shakespeare and the English Drama. Milton and Puritanism; French classicism; heroic drama, comedy, satire in England; rise of the novel; literature of the enlightenment; beginnings of romanticism; romantic poetry in England, France, Germany and Russia; the Novel and other prose forms; literature of the United States. Middle and late Victorianism; the Parnassians and Symbolists; Ibsen and the revival of the drama; the recent renaissance of American literature; contemporary fiction and poetry. Fall term, Bates. Winter term, Howe. Spring term, Bates.

Two hours, each term.

RHETORIC AND AMERICAN LIITERATURE

Professors Bates, Burgess, Thacher; Assistant Professor Thorpe; Instructors Collins, Melvin Solve, Turney.

REQUIREMENTS IN ENGLISH

All Freshmen must complete a prescribed course in English Composition varying from one to three terms according to the quality of the student's work, unless exempted upon the successful passing of an examination in English given at one o'clock on the Saturday immediately preceding registration day of each term.

Students planning to make Rhetoric their major subject must include in their lower division program Courses 4 or 5, and 59 in American Literature and 1, 2, 3 in English Literature.

LOWER DIVISION

1. English Composition. A study of the elements of effective prose, with analysis of illustrative extracts; constant training in writing and frequent consultations. Required for freshmen. Staff. *Three hours, each term.*

4a, b, c. Magazine Writing. Based on study of Atlantic Monthly, Nation, New Republic and other magazines. Burgess. *Two hours, each term.*

5a, b, c. Narration. A study of common types of prose narrative; their historical development and the principles underlying the writing of them. Reading and analysis of examples of types and writing of reviews and brief narratives. For exempted freshmen and sophomores. Turney. *Three hours, each term.*

7. The Study of Words. The purpose of this course is to aid students in the attempt to acquire a practical vocabulary. Burgess. *Two hours, spring term.*

9a, b, c. Business English. Written and spoken English, having especially in view the needs of students making Commerce their major subject. Only those students who have fulfilled the

English requirement may take this course. Textbook, Language for Men of Affairs (2 vol.) edited by James Melvin Lee.
Three hours, each term.

11. SHORT STORY. Typical short stories, both classics and those from current periodicals, are analyzed. In the latter part of the course consideration is given the standards and policies of contemporary magazines, and an attempt is made to produce marketable work. Thacher. *Three hours, each term.*

15a, b, c. ELEMENTARY PLAYWRITING. Study of primary dramatic principles; writing of simple dialogues, sketches and scenarios. Solve. *Two hours, each term.*

16a, b, c. VERSIFICATION. Solve. *Two hours, each term.*

59. AMERICAN LITERATURE. Study of American literature from its beginning to the present day. Lectures and assigned readings. Burgess. *Three hours, each term.*

60a, b, c. EXTEMPORE SPEAKING. The selection, organization, and presentation of speech material. Thorpe.
Two hours, each term.

65a, b, c. ARGUMENTATION. The theory and practice of debating. Thorpe. *Three hours, each term.*

UPPER DIVISION

104a, b, c. ADVANCED MAGAZINE WRITING. A continuation of course 4. Burgess. *Two hours, each term.*

111a, b, c. ADVANCED SHORT STORY. A continuation of course 11 for juniors and seniors. Thacher. *Two hours, each term.*

113a, b, c. TECHNIQUE OF POETRY. Study of the standard metrical forms and of modern free verse; practice in actual versification. *Two hours, each term.*

114a, b, c. ADVANCED WRITING. A course of seminar character. Open only to advanced students who desire to become professional writers. Thacher. *Two hours, each term.*

115. Technique of Drama. Advanced course in playwriting. Composition of one-act, two-act, and three-act plays. Bates. *Two hours, each term.*

152a, b. Teacher's Course. Composition and American Literature. Required of all seniors who expect to teach English. Turney. *Two hours, fall and winter terms.*

166. Emerson. The influence of Plato, Goethe, Coleridge, Carlyle and others upon Emerson; parallels with Marcus Aurelius, Epictetus; the effect of Emerson upon modern thought. Reading from poems, essays, Representative Men and English Traits. Burgess. *Three hours, one term.*

171. Criticism. Required for juniors majoring in Journalism. Practice in the writing of musical, dramatic, art, and literary criticism. Collins. *Two hours, each term.*

172. Contemporary American Poetry. Recent regular verse, free verse, polyphonic prose. Students will read with a view to understanding the work of the period, and also with a view to collecting, editing and presenting the work of their especially assigned authors. Burgess. *Three hours, spring term.*

174. Contemporary American Fiction. A study of the best American fiction since 1900. *Three hours, spring term.*

175. Edgar Allan Poe: A Study of Romantic Pessimism. The background of Romanticism; Poe's life and temperament; his relations with other American writers; his work in poetry, the short story and criticism; his influence on later Romanticism. Lectures and discussions. Burgess. *Three hours, one term.*

176. Walt Whitman: A Study of Romantic Optimism. Transcendentalism; the ideals of democracy; Whitman's great program; his degree of attainment; his influence on the literature of today. Lectures and discussions. Burgess. *Three hours, winter term.*

178. American Philosophy. Royce, James, Dewey, Santayana, and others. Bates. *Three hours, each term.*

182a, b, c. AMERICAN DRAMA. Reading of representative American plays. Study of some recent movements in the development of American drama. Turney. *Three hours, each term.*

185a, b, c. PRINCIPLES OF STYLE. Collins.
Two hours, each term.

190a, b, c. CONTEMPORARY AMERICAN LITERATURE. Collins.
Three hours, each term.

GRADUATE DIVISION

203. SEMINAR. Devoted to research problems. Open to graduate students and to occasional seniors who obtain special permission. Bates. *Three hours, each term.*

204a, b, c. TRANSLATION. Bates. *Three hours, each term.*

207. PRINCIPLES OF CRITICISM. A course, primarily designed for graduate students, affording a comparative study of critical theory and the application of theory to special problems. Bates.
Three hours, each term.

GEOLOGY

Professors SMITH (on leave), PACKARD, HODGE;
Graduate Assistant HOLDREDGE

LOWER DIVISION

1a, b, c. GENERAL GEOLOGY. A general survey of the various geologic processes, such as sedimentation, erosion, diastrophism, and vulcanism; followed in the winter quarter by a study of the occurrence, mining and utilization of coal, oil, iron, copper, gold, gems, and building stones; and followed in the spring by a study of the physical development of North America and a general survey of the history of life upon the earth.

(a) Physical and Dynamic Geology; fall term.
(b) Economic Geology; winter term.
(c) Historical Geology; spring term.

Four hours, each term.

2. Dynamic Geology. An intensive course in General Geology designed especially for Science majors, Geology majors, and Pre-engineering students. *Four hours, spring term.*

4a, b, c. Mineralogy. A general study of Crystallographic, Physical, and Chemical Mineralogy, followed by Determinative Mineralogy. Prerequisite, general chemistry. Two lectures and two laboratory periods. *Four hours, each term.*

8. Development and History of Life. Packard.
Four hours, winter term.

9. Geologic History of Man. Packard.
Three hours, spring term.

10. Geology of Structural Materials.
Three hours, spring term.

UPPER DIVISION

101. Structural Geology. A laboratory and field study of joints, faults, folds, and other rock structures, and typical geologic sections. Pre-requisites: Geology 1 or 2, and 111.
Two hours, spring term.

102 a, b, c. Advanced Economic Geology. The geology of the valuable non-metals including their occurrence, association and genesis. In the non-metals, particular attention will be paid to the fuels and to materials of construction. Under metals will be considered the methods employed in prospecting and the developing of ore bodies. Reasons for and methods of conservation of the various mineral resources will also be given special emphasis. Pre-requisites: Geology 1, 4, 111, 116. *Three hours, each term.*

103. Oil Geology. A study of the geologic principles affecting the petroleum industry with a survey of the principal oil fields and a consideration of field methods employed in their development.
Two hours, spring term.

104. Physiography *(Teachers' Course)*. An advanced course in Physiography with special emphasis upon the practical problems confronting a teacher of Physical Geography. Pre-requisite: Geology 1. Two lecture and recitation hours, and one laboratory period. *Three hours, spring term.*

105. The Topography and Physiography of the United States. A study of the typical physiographic features of the United States. Open to both lower and upper division students.
Two hours, spring term.

106a. Optical Mineralogy. The study of thin sections of rock minerals by means of the petrographic microscope. Special emphasis is laid on the determination of opaque economic minerals. Pre-requisite: Geology 1, 4, 116. One laboratory period.
Three hours, fall term.

106 b, c. Petrography. The continuation of 106a. This course takes up the study of rocks and their identification by means of thin sections. Laboratory work in the making of thin sections.
Three hours, winter and spring terms.

107. Field Geology. A general course in geologic mapping and survey methods. The major portion of the time will be devoted to the topographic and geologic mapping of an assigned area. A written report on the area mapped will be required in this course. Pre-requisites: Geology 111, 116, and Architecture 62.
Two hours, spring term.

108a. Invertebrate Paleontology. A laboratory and lecture study of the main groups of recent invertebrates and comparison with fossil specimens. Two laboratory and two lecture periods a week. *Four hours, spring term.*

108b. Invertebrate Paleontology. A continuation of course 108a, using Zitte's Textbook in Paleontology.
Four hours, fall term.

109 a, b. Vertebrate Paleontology. A study of the osteology and history of a few selected groups of vertebrates.
Three hours, fall and winter terms.

111. Principles of Stratigraphy. The genesis and subsequent history of stratified rocks, including a study of the geologic processes concerned with sedimentation, cementation, diastrophism, and weathering; and the consideration of methods of entombment of organic remains and their significance in geologic correlations.
Four hours, fall term.

113. Coal. A study of the properties of coal, its geologic occurrence, and the general methods of production.
Two hours, winter term.

116. Petrology. A study of the common rock forming minerals and the microscopic determination of common types of rocks.
Four hours, winter term.

118. Tertiary Faunas. A study of the faunal aspects of the principal West Coast horizons, and the determination of characteristic index fossils. Pre-requisites: Geology 111, and 108.
Four hours, winter term.

119. Mesozoic Faunas. A consideration of the character, migrations, and successions of the Mesozoic West Coast faunas, including a laboratory study of typical species from the various horizons. Pre-requisites: Geology 111, and 108.
Four hours, spring term.

120. Geologic History of North America. The geologic development of North American continent. Pre-requisites: Geology 111 and 108a. *Three hours, fall term.*

121. Geologic History of the Pacific Coast. The geology of the Pacific Coast of North America. Pre-requisite: Geology 111, 108a. *Three hours, winter term.*

122. Geologic History of Oregon. A study of the geology of Oregon and the discussion of local geological problems. Pre-requisite: Geology 121. *Three hours, spring term.*

140. Principles of Assaying. Principles of fire assaying and the determination of gold, silver and lead in ores.
Four to six hours, winter term.

170. Advanced Field Geology. A detailed field study of a small selected area. This work is conducted in a summer camp of three weeks. Recommended for all majors and graduates. May be taken with full credit for a series of summers, as a different area is studied each season. *Five hours.*

GRADUATE DIVISION

201. SEMINAR. Open to advanced major students of this and related departments for the consideration of research material and a review of the current technical literature. *One hour, each term.*

202. ADVANCED GEOLOGY. Special work assigned to meet the requirements of advanced students.

208. ADVANCED PALEONTOLOGY. Special work assigned to meet the requirements of the advanced student.

GERMANIC LANGUAGES AND LITERATURE

Professors SCHMIDT, THORSTENBERG; Graduate Assistant MARGUERITE CLARK

In order to be recommended as a teacher of German, students should have taken in this department courses 3, 101, 110, 111, 112 and either 102, 103 or 201.

Qualified freshmen are admitted to all courses in this department.

GERMAN LANGUAGE AND LITERATURE

LOWER DIVISION

1a, b, c. ELEMENTARY GERMAN. The elementary course comprises: Vos's Essentials of German (Henry Holt), new edition; and Huss's German Reader (D. C. Heath); German composition, translation of easy prose and poetry. No credit for less than three terms work. Schmidt, Thorstenberg.
Five hours, each term.

3a, b, c. SECOND YEAR GERMAN. Grammar, composition and conversation. Translation of standard German authors. Prerequisite, one year of college or two years of high school German. Schmidt, Thorstenberg. *Four hours, each term.*

4a, b, c. SCIENTIFIC GERMAN. Recommended to students in science or Medicine. Students desiring to enter this course should consult the instructor. Thorstenberg. *Three hours, each term.*

UPPER DIVISION

101a, b, c. CLASSICAL GERMAN. Open to students who have had two years of German. Some works of Goethe, Schiller, Lessing, Kleist, Grillparzer, etc., will be read. Prerequisite, two years of college German. Schmidt. *Three hours, each term.*

102a, b, c. GERMAN FICTION AND CONTEMPORARY LITERATURE. During the year some of the following works will be read: Sudermann's Der Katzensteg; Keller's Kleider Machen Leute; Meyer's Juerg Jenatsch; Wildenbruch's Der Letzte; Riehl's Burg Neideck, Der Fluch der Schhoenheit; Frenssen's Joern Uhl, etc. Schmidt. *Three hours, each term.*

103a, b. c. MODERN GERMAN DRAMA. Some of the following dramas: Fulda's Der Talisman or Das Verlorene Paradies; Wildenbruch's Harold, Hauptmann's Die Versunkene Glocke; Ernst's Flachsmann als Erzieher; Sudermann's Johannes or Heimat, etc. Thorstenberg. *Three hours, each term.*

104. GERMAN POETRY. Poems of Goethe, Schiller, Uhland, etc., will be read. Hours to be arranged.
Three hours, spring term.

105. GOETHE'S FAUST. Part I with commentary. Schmidt.
Three hours, winter term.

106. GOETHE'S FAUST. Part II with commentary.
Three hours, spring term.

107. HEINE'S PROSE. Die Harzreise; Die Romantische Schule, and other selections. *Three hours, fall term.*

108. HISTORICAL AND PHILOSOPHICAL GERMAN. The rapid translation of modern historical, philosophical and economic German. Hours to be arranged.

109a, b, c. COMMERCIAL GERMAN. The purpose of this course is to make the stuent acquainted with the elements of commercial German and to widen his commercial vocabulary by means of reading texts dealing with German business customs and institutions. Only students who have had at least two years of German will be admitted to this course. The text is Kutner's Commercial German. *Two hours, one term.*

110. Teaching of Modern Languages. Discussion of methods of teaching German, French and Spanish; examination of texts. Open to juniors and seniors. Required of students who wish to be recommended as teachers of foreign languages. Schmidt.
Three hours, spring or fall term.

111a, b, c. Advanced German Composition. Required of all students who wish to teach German. No credits allowed unless two terms are taken. *Two hours, each term.*

112a, b, c. German Conversation. Open to all students who have had two years of German. No credits allowed unless two terms are taken. *Two hours, each term.*

113a, b, c. History of German Literature. Lectures in English. Outside reading and papers on assigned topics. No German required. Schmidt. *Two hours, each term.*

114. The Nineteenth Century Novels. Freytag's Soll und Haben, or Rittmeister von Alt-Rosen; Meyer's Juerg Jenatsch; Sudermann's Der Katzensteg; Frenssen's Joern Uhl; Storm's Der Schimmelreiter; Riehl's Kulturgeschichtliche Novellen; Paul Heyse's Das Glueck von Rothenburg; Scheffel's Ekkehard; Ludwig's Zwischen Himmel und Erde; Dahn's Ein Kampf um Rom. In addition to this, suitable selections from Ganghofer, Rosegger, Auerbach, Ebner-Eschenbach, Spielhagen and others will be assigned for outside reading. Schmidt. *Three hours, each term.*

GRADUATE DIVISION

201. Middle High German. Michels, Mittelhochdeutsche Grammatik, 1910; Henrici, Proben der Dichtungen des Mittelaters, Berlin, 1898; Selections from Nibelungenlied; Walter von der Vogelweide; Parsifal; Lexer, Mittelhochdeutsches Taschen-Woerterbuch.
Three hours, two terms.

202a, b. Old High German. Braune's Althochdeutsche Grammatik, and the same author's Althochdeutsches Lesebuch (4th edition); Muellenhoff and Scherer's Denkmaeler Deutscher Poesie and Prosa (3rd edition); Behaghel's Historical Grammar of the German Language.

203. Gothic and the Elements of Comparative German Grammar. Braune, Gotische Grammatik, latest edition (1914). Heyne's Ulfilas, 9. Auflage, von F. Wrede, Paderborn, 1896; Streitberg's Urgermanische Grammatik. This course is required for advanced degrees in English Philology.

204. History of German Literature of the Nineteenth Century. With special study of the classic periods of the twelfth and eighteenth centuries. Scherer's Geschichte der deutschen Literatur, Franke's History of German Literature are used as text-books. Papers on assigned topics will be required.

205. Physiological Phonetics. The sounds of English, German and French. Grandgent, German, and English sounds (Boston, Ginn & Co., 1892); Ripman's adaptation of Vietor's Kleine Phonetik (London, J. M. Dent & Co., 1913); Kleines Lesebuch in Lautschrift von Vietor; Sweet, A Primer of Phonetics (Oxford, Clarendon Press, 1890); lectures. Each student will make a special study of his English vowels. *Two hours, one term.*

Scandinavian Language and Literature

LOWER DIVISION

21 a, b, c. Elementary Norwegian (Dano-Norwegian). Principles of grammar and the reading of easy prose. The texts used comprise Olson's Norwegian Grammar and Reader, or Holvik's Beginner's Book in Norse; Bjoernson's Synnoeve Solbakken, or En glad Gut; Lie's Fortaellinger; Kielland's Novelletter. No credit for less than three terms' work. Thorstenberg.
Three hours, each term.

31a, b, c. Elementary Swedish. Principles of grammar and the reading of easy prose. The texts used comprise: Elmquist's Swedish Grammar, or Vickner's Swedish Grammar; Lagerloef's En Herrgardssaegen; Geijerstam's Mina Pojkar; Nyblom's Det ringer. No credit for less than three terms' work. Thorstenberg.
Three hours, each term.

UPPER DIVISION

123a, b, c. Scandinavian Literature (Conducted in English). Works of Bjoernson, Ibsen. Lie, Kielland, Tegner, Rydberg, La-

gerloef, Strindberg, etc., in standard translations. Supplementary lectures on the history of the literature. Thorstenberg.
Three hours each term.

124a, b, c; 134a, b, c. ADVANCED NORWEGIAN OR SWEDISH. Study of works, in the original, of representative Scandinavian authors, supplemented by advanced prose composition and conversation. Thorstenberg. *Three hours, each term.*

GRADUATE DIVISION

222. OLD ICELANDIC. Noreen's Altislaendische and Alt Norwegische Grammatik is used. Thorstenberg.

GREEK

Dean STRAUB; Professor H. A. CLARK.

As Greek is rarely offered in any of the accredited preparatory institutions of this state, and is not included in the high school course of study, it is necessary to offer beginning Greek in the University. In consequence, the drill in Greek grammar is emphasized during the first two years. Students are not advised to take Greek who do not propose continuing it until they have an easy reading knowledge of such prose writers as Thucydides and Herodotus. Majors in Greek are required to have a minimum of 48 term hours of syntax or of reading courses in the original. On account of the demand for Greek from students of the Eugene Bible University, in preparation for the ministry, several courses in New Testament Greek are offered.

LOWER DIVISION

1a, b, c. BEGINNING GREEK. Gleason's Greek Primer; Goodwin's Greek Grammar; The Anabasis of Xenophon (Harper and Wallace), Books I and II. Students must take all three terms to receive credit. *Five hours, each term.*

50a, b, c. XENOPHON, HOMER, AND GREEK GRAMMAR. Xenophon's Anabasis, Books III, IV, and V; Homer's Iliad, Books I, II, III and VI, with readings on the lives and customs of the

Homeric period. Thorough knowledge of Greek grammar will be considered necessary to proper translation. Major students should also take 51a, b, c. *Three hours, each term.*

51a, b, c. GREEK GRAMMAR, GREEK PROSE AND GREEK SIGHT TRANSLATION. Completion and review of Goodwin's Greek grammar; continuous practice in Greek prose composition (Jones); easy sight translation.

Two hours each term.

UPPER DIVISION

100a, b, c. XENOPHON AND GREEK TESTAMENT. Xenophon, Book VI; Matthew, Mark, Luke and John; selections from the Septuagint; review of Greek grammar and general study of Hellenistic Greek. This course is intended primarily for students in preparation for the ministry, but is elective for other students in Greek. Students are expected to have had 1a, b, c, 50a, b,c, and 51a, b, c or their full equivalent. Texts: Westcott and Hort's Greek New Testament; Conybeare and Stalk's Selections from the Septuagint (Ginn and Co.).

Four hours, each term.

101a, b, c. HOMER, THUCYDIDES, AND HERODOTUS. Homer, Odyssey, three books; Thucydides, Books I, II and III; Herodotus, Books VII, VIII and IX; review of Greek grammar; readings on the periods of Greek history covered in the original.

Three hours each term.

102a, b, c. EURIPIDES, ARISTOPHANES, SOPHOCLES. Euripides, Bacchae; Aristophanes, The Wasps; Sophocles, The Antigone; study of Greek comedy and Greek tragedy of the periods covered in the original. Any good text acceptable. Review of Greek grammar. *Two hours, each term.*

103a, b, c. GREEK MYTHOLOGY, ART, LIFE AND LITERATURE. This course is elective by majors or non-majors, and is intended to give an insight into the religion, habits and civilization of the Greeks. Texts and readings to be prescribed. Greek majors who elect this course should elect it only in conjunction with a course in original Greek. *Two hours, each term.*

150 a, b, c. PLATO AND ARISTOTLE. Plato, The Republic, Books I to X; Aristotle, Ethics, Books I to IV and Book X, Chapters 5 to 9. Brief outline of Greek philosophy of the period; students are advised, however, to elect the course in history of philosophy in the department of Philosophy. *Three hours, each term.*

151a, b, c. AVANCED GREEK PROSE COMPOSITION, SIGHT TRANSLATION AND SELECTED READINGS. Passages will be assigned for sight translation from Plato, Herodotus, Plutarch and Demosthenes. Selected readings from Plato, Thucydides, Demosthenes and Aeschylus. *Two hours, each term.*

GRADUATE DIVISION

200 a, b, c. PINDAR, THEOCRITUS AND AESCHYLUS. Pindar, Olympian and Pythian Odes; Theocritus, Idylls and Epigrams; Aeschylus, Prometheus Bound and Agamemnon; study of Greek elegiac, iambic and lyric poetry. *Three hours, each term.*

201 a, b, c. PLATO. Plato, The Dialogues. An extended reading of the dialogues with a study of their philosophical import.

202 a, b, c. THE GREEK DRAMA. A reading of numerous plays in the original is expected, and is incidental to a detailed study of the rise, development and genius of the Greek drama.

203 a, b, c. THE GREEK HISTORIANS. Students will be expected to know the original throughout of Xenophon, Thucydides and Herodotus. This is essentially a study of Greek history through the documents provided by the Greeks themselves.

HISTORY

Professors R. C. CLARK, BARNES, DUNN
Assistant Professor GRIFFIN.

The new two-year course in World History, together with the complementary course in World Literature (see English), will serve to give a broad view of the achievements of the human race—and the progress of civilization from earliest times to the present. Where possible these two courses should be taken together in the same years. They furnish the basis for an under-

standing of contemporary civilization, and should help the student to find himself in his especial field of knowledge.

The other lower division course, England and the British Empire, is introductory in a more specific way, and gives a more thorough historical training for advanced work in the department.

Prospective teachers seeking a recommendation to teach history in the high school must take at least three full year courses in the department, and their work should cover the field of European and American history.

LOWER DIVISION

A one year lower division course or its equivalent is required for entrance to upper division courses.

1a, b, c. 2a, b, c. WORLD HISTORY. A comprehensive and continuous story of the evolution of civilization from earliest man to the present day, covering all the main lines of human thought and activity in the past. This is a two year course, the years being open to sophomores and juniors, respectively and elective only by year units. The first year is begun in 1921-22, and during this year seniors will be admitted.

Three hours, each term.

51. EUROPE OF THE LAST FIFTY YEARS. The domestic conditions and the socialist movements, the expansion of Europe and the growth of modern imperialism, the World War, the problems of peace and the new world order. Open to freshmen without prerequisite. *Five hours, spring term.*

(Students receiving credit for course 51 will not be allowed credit for course 141c or for the fourth hour of 141b, and students having credit for 141b or 141c may not enter course 51.) Barnes. *Five hours, spring term.*

61a, b, c. ENGLAND AND THE BRITISH EMPIRE. A general survey of English History covering the political and constitutional, the economic and social, the intellectual and religious lines of development. The third term will include a sketch of the growth of the empire. In their collateral reading, students

may specialize on the literary, the constitutional, or the economic and political aspects. Open to freshmen. May be entered second term by permission of the instructor, but no credit is given for less than two terms. Barnes. *Four hours, each term.*

71a, b, c. AMERICAN HISTORY. The story of expansion of Europe in America, the struggle for independence of the American Colonies, establishment of a national government, and the history of the United States since 1787. Elective by terms. Clark. *Four hours, each term.*

UPPER DIVISION

101. THE HISTORY OF HISTORY. A study of the greatest historians of the past as they show the development of the art of writing history. Pre-requisite two years of history. *Three hours, winter term.*

102. THE TEACHING OF HISTORY. A course designed for major students and others who are preparing to teach history in high schools. Clark. *Three hours, fall term.*

111a, b. ANCIENT HISTORY. History of Greece during the fall term, history of Rome, winter term. Special attention will be given to the social, economic, and intellectual forces behind the political movements, and to the development of the Roman system of government. *Four hours, fall and winter terms.*

114a, b, c. HISTORY OF ROME. From the founding of the city to the end of the empire. Dunn. *Three hours, each term.*

121. THE MIDDLE AGES. A study of the development of Europe and its civilization from the decline of the Roman Empire to the age of Dante. Not given 1921-22. *Four hours, spring term.*

131a, b, c. THE GROWTH OF THE NATIONAL MONARCHIES. First term the Renaissance, second term the Reformation and the Religious Wars, third term Louis XIV and the Eighteenth Century. This course traces the development from the medieval period of the universal church to the modern period of independent states, and their rivalry in war, colonial expansion,

commerce, culture and religion from the beginning of the Renaissance to the Eve of the French Revolution. (Not given 1921-22.) *Three hours, each term.*

141a, b, c. Modern European History. The history of Europe from the death of Louis XIV to the present day. The course will treat the Old Regime, the spirit of reform, the French Revolution, the nineteenth century struggle for nationality and democracy, the growth of modern states, the expansion of Europe, the World War and the Peace Settlement. Economic and intellectual factors will be included. Barnes.

Four hours, each term.

(Students having credit for course 51 will not be allowed credit for course 141c nor for the fourth hour of 141b, and students having credit for 141b or 141c may not enter course 51.)

146. The Russian Revolution. A brief account of the revolutionary movement in Russia since 1870 as illuminated by comparison with the French Revolution. Pre-requisite 141a.

Two hours, fall term.

162a, b. English Constitutional History. A study of the development of the leading features of the English constitution and the influences that have made the English government what it is today. The growth of kingship, parliament, courts, local institutions, and the changing character and functions of each will be considered. Pre-requisite English history, high school or college, or junior standing. Clark.

Three hours, fall and winter terms.

163. The Stuarts and Their Parliaments. A study of the times of the Stuarts, with especial consideration of the rule of Cromwell and the Revolution of 1688 as efforts of the House of Commons to control the government. Pre-requisite 61b. (Not given 1921-22.) *Three hours, one term.*

172. American Foreign Relations. A history of the relations of the United States with other powers and the development of American foreign policies since 1789.

Four hours, spring term.

176. The Trans-Mississippi West. Exploration, settlement, and development of the region of the United States lying west of Mississippi river, with emphasis on Pacific Northwest.
Four hours, fall and winter terms.

181. Latin American History. A study of the history, together with political, social, and economic conditions of the "Other Americas." (Not given in 1921-1922.) *Four hours, spring term.*

191 a, b, c. Pacific Orient. China, Japan, and other Pacific countries, their history, organization, policies, with a consideration of their relations to the Pacific states of America. Griffin.
Four hours, each term.

GRADUATE DIVISION

241. Forerunners of the French Revolution. A source study of the influence of the leading 18th century writers upon the ideas of the French Revolutionists. A reading knowledge of French almost indispensable. Pre-requisite either 131c or 141a.
Three hours, fall term.

276. Seminar in Oregon History. A detailed study largely from the sources, of the building of civilization in the western portion of the United States, particularly in Oregon and the Northwest. For history seniors as an equivalent of the thesis requirement and for graduate students. Designed to follow Course 176. Clark. *Three hours, winter and spring terms.*

HOUSEHOLD ARTS

Professor Tingle; Assistant Professor Kerns; Instructors Avakian, Datson, Hauck, Pattison, Robertson.

Pursuant to a ruling of the Board of Higher Curricula the work in Household Arts does not constitute a major department. Consequently, those taking work in Household Arts must fulfill the major requirements in some other department. The head of the Household Arts staff, however, may be chosen by students as adviser.

LOWER DIVISION

CLOTHING GROUP

1a, b, c. CLOTHING. Study of materials, design and costs. Principles of construction. Making of type garments. Study of the clothing budget. This course is intended for those who have not had high school courses in sewing. Hauck.

Three hours, each term.

11a, b. CLOTHING. Economics of clothing. Practical problems in garment making. Study of line and color in dress. Renovation of materials. Study of standard textiles. This course is intended for those having had previous instruction in sewing and garment making. Will satisfy group requirements if combined with other units as advised by the head of the department.

Four hours, fall and winter terms.

11c. CLOTHING PROBLEMS. Special problems in clothing. Prerequisite 11a, b or equivalent and consent of instructor. Hauck. *Three hours, spring term.*

21a, b. DRESS DESIGN. Study of line, color and fabrics as applied to dress design. Study of historic dress and ornament. Planning of modern costumes, based on principles of design and color harmony adapted to individual requirements. May be combined in sequence with Textiles or Dress Design. Avakian.

Three hours, fall and winter terms.

21c. DRESS DESIGN PROBLEMS. Special problems in period, stage or commercial designs. Prerequisite, 21a, b or equivalent and consent of head of department. Textiles advised as parallel or prerequisite. Hauck. *Three hours, spring term.*

31. TEXTILES. Identification of fibers. Microscopic study of fibers. Physical and chemical tests, economic features of textile industry. Prerequisite, chemistry, either high school or college. Hauck. *Three hours, spring term.*

FOOD GROUP

5a, b, c. FOOD. This course includes a general survey of the elementary problems of cookery, the planning and serving of meals, study of food materials and food values, and purchase of

food materials. Intended for those who have not taken food courses in high school. Tingle and Pattison.

Three hours, each term.

15a, b. Foods. Study of foods and methods of food preparation with special reference to technique and temperatures. Time and cost studies in connection with the planning and serving of meals. Preparation of prescribed diets. Prerequisite chemistry 1 (either high school or college) and high school cooking or examination. Will satisfy group requirements if taken with other units as advised by the head of the department. No credit for one term's work. Tingle and Pattison.

Three hours, fall or spring term.

15c. Foods. Special practical problems. Prerequisite 15 a, b, or equivalent and consent of instructor. Tingle.

Three hours, fall or spring terms.

25. Elementary Food Economics. This is an elementary course designed for students who cannot take all prerequisites for the course in Nutrition. It includes a discussion of the functions and nutritive values of foods and the selection of food to meet individual and group needs. Tingle.

Three hours, any term.

35. Home Nursing. Emergencies, first aid and home care of the sick or convalescent. Prerequisite, Household Sanitation and Food Economics. Pattison, Robertson.

Three hours, fall or spring terms.

UPPER DIVISION

100. Nutrition. This course offers a survey of the nutritive values of food and the nutrition requirements of the body. In the laboratory food values are studied quantitively and problems in diet for different ages are worked out concretely. Prerequisites chemistry, physiology and H. A. 5a, b, c or equivalent training in food preparation. Pattison.

Four hours, spring term.

101. Nutrition Problems. Special problems in diet. Practical work arranged with reference to the needs of majors in

sociology, physical education and medicine. Prerequisite H. A. 15a, b, or equivalent, 25, and consent of the instructor. Tingle and Pattison. *Three hours, fall or spring term.*

102a, b. Food Preparation for Social Workers. Arranged for Sociology majors, elective for upper division students. First term, problems of purchasing, cost, preparation, and service of food in larger quantities, as in social welfare centers, community kitchens and school lunch rooms. Second term, study of budgets and family dietaries for limited incomes; presentation of food problems. Courses in sequence but may be taken separately. Tingle. *Three hours, fall and winter term.*

108a, b. Home Decoration. The site, plan and construction of a house, application of structural are principles, choice and arrangement of household fabrics and furnishings, color, space and texture studies. Kerns. *Three hours, fall and winter terms.*

108c. Home Decoration. Special problems and field work. Prerequisite 108a, b and consent of instructor. Kerns. *Three hours, spring term.*

110, 111, 112. Household Management. The problems of the modern home-maker from both theoretical and practical point of view. First term, study of selection, cost, care, and renovation of household equipment. Practical efficiency problems. Second term, business and administrative problems. Third term, practice housekeeping, enrollment limited to six. Courses in sequence, but may be taken separately. Tingle, Pattison, Hauck. *Three hours, each term.*

135. Care of Children. Study of the physical and mental development of children, food and clothing for children from infancy to adolescence, general care and training for family life from the point of view of child welfare. Prerequisite Home Nursing. Pattison. *Three hours, spring term.*

175. Home Economics Journalism. A course for Journalism majors, elective for upper division students. Prerequisite Journalism 133, and one upper division course in Household Arts. Tingle, Allen. *Two hours, winter and spring terms.*

HYGIENE AND PHYSICAL EDUCATION

Dean BOVARD

University Health Service: Drs. LIVINGSTONE, KUYKENDALL, STUART; Misses ROBERTSON, KIMBROUGH, COST, LANCASTER.

Department of Physical Education for Women: Professors ALDEN THOMPSON; Assistant Professor WINSLOW; Instructors MANCHESTER, WATERMAN.

Department of Physical Education for Men: Professors SCOTT, HAYWARD; Assistant Professor BOHLER; Instructors BARNES, HUNTINGTON.

Courses 1 and 2 (or 3) for women and 51 and 52 (or 53) for men, are required of all undergraduates in the first two years of residence.

LOWER DIVISION

Courses Primarily for Women

1. ELEMENTARY PHYSICAL EDUCATION. The regular freshman course consists of gymnastics with strong posture emphasis during the fall and winter terms, and of dancing, swimming or other sports during the spring term. Three periods a week.
One hour, each term.

2. ADVANCED PHYSICAL EDUCATION. The regular sophomore course, consists of outdoor sports during October, gymnastics with apparatus work from November 1 to the beginning of the spring term, and either dancing, swimming or outdoor sports during the spring term. Three periods a week. *One hour, each term.*

3. CORRECTIVE, REMEDIAL OR RESTRICTED EXERCISE. For students unable to profit by courses 1 or 2. Special group work for posture, foot or other typical cases and individual prescriptive exercise or massage for those requiring such. Students needing special exercise should adapt their programs to the hours set aside for this work. *One hour, each term.*

4. Dancing—Folk and National Dancing. Suggested for playground supervisors and majors in physical education or public school music. Two periods a week each term. Open to any qualified. Credit given to majors in Physical Education only.
One-half hour, each term.

5. Dancing—Æsthetic Dancing. Fundamental steps and terminology. Technique exercises and simple dances. For majors in physical education, dramatic interpretation and others qualified. Two periods a week. Credit given to majors in Physical Education only. *One-half hour, each term.*

6. Swimming—Strokes, Dives and Speed Swimming. Normal methods and practice in teaching for seniors in physical education and others qualified. Credit for majors in Physical Education only. *One-half hour, any term*

7. Personal Hygiene. Lectures and text: Hough & Sedgwicks "Human Mechanism." *Three hours, any term.*

Courses Primarily for Men

51. Elementary Physical Education. All freshman men students should register in this course. After a physical examination the student is assigned to various classes by the instructor. Class work is given in the following: Gymnasium, floor work, swimming, boxing, wrestling, basketball, football, track, etc.

Swimming Test. Every entering student is given as soon as practicable a test as to his swimming ability. Those not able to pass must take a course in swimming before the end of the sophomore year. Three periods a week. *One hour, each term.*

52. Advanced Physical Education. Required of all sophomores. Continuation of Course 51, but more advanced in character. Students are required to have engaged in at least three lines or recreational activities before the end of the sophomore year. Three periods a week. *One hour, each term.*

53. Restricted Physical Education. A special course for those not adapted to the heavier regular class work. Students are given individual attention and assigned to recreational and cor-

rective programs suited to their needs. Substitute for Courses 51 and 52. Three periods a week. *One hour, each term.*

54. INDIVIDUAL HYGIENE. A brief study of physiology followed by the application of the natural laws of hygiene for the health welfare of the individual. Textbooks, references and lectures. Three lectures a week. *Three hours, fall or winter terms.*

55. DANCING. A study of certain folk and national dances and the elements of æsthetic dancing. For playground supervisors and for majors in physical education. Intended to develop poise, skill, balance, etc. Credit for majors in Physical Education only. Two periods a week. *One-half hour, spring term.*

Courses for Men and Women

71. GENERAL HYGIENE. A study of the natural laws of health—the agents that injure health, the contributory causes of poor health, the carriers of disease, the defenses of health and the producer of health. Three lectures a week.
Three hours, winter or spring term.

72. INTERGROUP HYGIENE. A study of the laws of health as applied to groups such as state and nation. Three lectures a week.
Three hours, spring term.

UPPER DIVISION

Courses Primarily for Women

101a, b. ADVANCED GYMNASTICS. For majors in Physical Education and those preparing for playground supervision. Credit for Physical Education majors only. *One hour, each term.*

102. PLAYGROUND SUPERVISION. The hygienic, educational and social significance of play. The analysis of play activities; instruction in games, basketry and folk dancing; practical work with children. Open only to upperclass students.
Three hours, each term.

103. DANCING. A continuation of Course 14. Interpretive and character dances, dance composition, festivals. Three periods a week. Credit for Physical Education majors only.
One-half hour, each term.

104. TECHNIQUE OF TEACHING. Gymnastic terminology, readiness in the use of commands, voice and personal bearing of the teacher, are given chief attention. Two periods.

One hour, fall term.

105a, b. NORMAL INSTRUCTION. Practice in class instruction for facility in methods of demonstration, command and correction. Responsibility for rapid lesson movement and suitable progression. During the spring term analysis and composition of light apparatus exercises and simple dances. Two periods a week. Text: Skarstrom's "Gymnastic Teaching."

One hour, winter and spring terms.

106. EUGENICS. Reproduction, heredity, environment and disease as related to racial health. Negative measures for race improvement; positive measures. Lectures and references. Prerequisites, botany or zoology. *Two hours, winter term.*

107. ANTHROPOMETRY. The interpretation of health history and physical signs; the technique of physical measurements and tests. Prerequisites, kinesiology and physiology.

Two hours, spring term.

108. THEORY AND PRACTICE OF CORRECTIVE GYMNASTICS. Lectures, demonstrations, assigned reading and practice of corrective gymnastics and massage. Two hours lecture; three hours practice. Pre-requisites, kinesiology and physiology.

Three hours, each term.

109. PLAYGROUND ACTIVITIES. This course is concerned with the practical material for playground directors. The students get practice not only in playing the games, but also in teaching them. The material includes organized and unorganized games of every type. The various forms of relay races, stunts for special occasions, singing games, dramatized Mother Goose rhymes, simple folk dances, the use of playground apparatus, and the theory and practice of story plays.

Three hours, each term.

110. THEORY AND PRACTICE OF PHYSICAL EDUCATION. Organization and administration of physical training (gymnastics, dancing, and athletics) in the high school and elementary school. Pub-

lic school supervision, normal school work, primary methods. The content, character, and adaptability of the gymnastic lesson with practice in building progressive series of lessons of different types. Lectures and library work, in which the student becomes more or less familiar with current literature on the subject.

Three hours, winter and spring terms.

Courses Primarily for Men

151. High School Coaching. A study of the theory of coaching sports in schools and playgrounds. The courses are given by seasons so the student can have the benefit of practice and analysis of the fundamentals of the sport. Two periods a week, elective.

Pre-requisites. No student will be admitted to this course who has not spent at least one season on the squad or played the game in the intramural activities. He must also have Junior standing.

151-Fb. Football. *Fall term.*

151-Bk. Basketball. *Winter term.*

151-Bs. Baseball. *Spring term.*

151-Tr. Track. *Spring term.*

Two hours, any term.

152 a, b, c. Physical Education Technic. Class work will consist in systematic and intensive study of the sport or activity. Special attention will be given to the perfection of form, methods of instruction and practice teaching. Required for majors in men's department. Four periods a week.

152a. Swimming and Wrestling. *One hour, fall term.*

152b. Boxing and Tumbling. *One hour, winter term.*

152c. Advanced Gymnastics and Minor Sports. *One hour, spring term.*

153. Theory and Practice of Corrective Work. Lectures demonstrations and assigned readings. Practice and theory of corrective gymnastics. Two lectures and one laboratory period.

Three hours, winter and spring terms.

154. Playground Activities. A study of the games, sports, and mass athletics suitable for public playgrounds and schools. Their organization and classification. Two lectures and one laboratory period. *Three hours, spring term.*

155. Physical Diagnosis. An advanced course elective for majors in physical education and others qualified. The interpretation of health history and physical signs; the technique of physical measurements and tests. Pre-requisites, Physiology and Health Service course. *Two hours, fall term.*

Courses for Men and Women

171. Applied Anatomy. A study of the joints and principal muscle groups of the human body, with particular attention to their action. Open to sophomores; a pre-requisite for majors in physical education. Text: Bowen & McKenzie. Anatomy. Pre-requisite, course in Mammalian Anatomy, Zoology 5. *Four hours, winter term.*

172. Kinesiology. The analysis of gymnastic, athletic and occupational movements from the standpoint of their motor mechanism. Pre-requisites, Courses 2 and 7. Text Skarstrom's Kinesiology. *Five hours, spring term.*

173. Playgrounds—Management and Practice. The hygienic, education and social signicance of play. The analysis of play activities; instruction in games, basketry and folk dancing; practical work with children. Open only to upperclass students. *Three hours, each term.*

174. Medical Service. A study of the principles of First Aid Treatment, with demonstrations and practice, symptomatology of common ailments, and the general principles of training and conditioning of men. *Three hours, fall term.*

175. Theory and Practice of Physical Education. Physical Education in relation to public health, its place in the educacational scheme; adaptation of subject-matter and method. Organization and administration of physical training in high schools, in elementary schools, supervision. Lectures and library work, in which the student becomes more or less familiar with current literature on the subject. *Three hours, fall term.*

176. History of Physical Education. A study of historical methods by which health and physical efficiency have been maintained through exercise. *Two hours, one term.*

177. Physiology of Exercise. Special study of the problems of muscle nerve physiology—nature and causes of fatigue, effect of internal secretions on muscular action, relation of blood pressure, etc. Two lectures and one laboratory.
Three hours, winter term.

GRADUATE DIVISION

201. Corrective Gymnastics and Physiotherapy. An advanced course in the theory and practice of corrective work. Lectures and clinic. The student will have opportunity for making diagnosis and following cases through treatments. Dr. Stuart.
Three hours, each term.

202. Research in Corrective Gymnastics and Physiotherapy. Specially qualified students may arrange for work of this kind on consent of Dr. Stuart. Dr. Stuart.

203. Physiology of Exercise. Lectures and laboratory work. An advanced course in physiology covering the physiology of muscle and nerve activities with applications to exercise, industrial fatigue problems, massage and corrective gymnastics. Bovard.
Three hours, one term.

204. Research in Physiology. Specially qualified students may arrange to take problems concerned with muscle nerve physiology. Bovard.

JOURNALISM

Deans Allen and Dyment; Professors Thacher and Turnbull; Assistant Professor Hall.

LOWER DIVISION

1a, b, c. Elementary Newswriting and Gathering. Including fundamentals of general reporting, interviewing, news analysis, note taking, together with a study of news and lectures upon the modern newspaper. Turnbull. *Two hours, each term.*

UPPER DIVISION

102a, b, c. REPORTING AND COPY-READING. Designed to carry a step further the training in news-writing given in the elementary course. The student is developed toward professional standards, to the point where his news stories can be published in the daily papers with a minimum of editing. Assignments are given each student, and prepared with a view to probable publication in some of the available University, town and state papers. Types of news-writing in leading newspapers of the country are studied. Methods of handling typical difficulties in newsgetting are considered. In copy-reading the class works around a typical newspaper copy desk, where the members handle all the copy designed for publication in the student paper, editing it, correcting and revising any errors of fact, style and treatment. Here also is available for practice work the full report of the United Press leased wire. All matter edited is fitted with headings by the students. Headwriting is an important part of the course. Turnbull. *Four hours, each term.*

103a, b, c. PUBLISHING. This course includes the study of type and its uses, book and newspaper proof-reading, printing machinery and materials, the illustrative processes, cost accounting for printers, and country journalism. One period a week of print shop laboratory. Allen, Hall. *Four hours, each term.*

104a, b, c. EDITING. This course includes practical editing, the study of contemporary newspapers, history of journalism, a consideration of journalistic ethics, editorial writing, the analysis of news and propaganda, and of newspaper problems. Intended for seniors. Allen. *Five hours, each term.*

105a, b, c. LAW OF THE PRESS. Law of libel, blackmail, literary property including copyright, privileged communications, federal regulations and other phases of law bearing on the Press. Dean Hale. *One hour, each term.*

106a, b. ADVERTISING. Theory and practice. Definitions; psychology of advertising; consideration of media; determining how much to spend. Preparation of copy; consideration of returns. Examples of effective advertising, with an analysis of

the principles, psychological and typographical, of the pulling power. Practice will be given in the preparation of copy designed for appeal to different classes of readers. Principles of display, including illustration and color, will be discussed. Textbook: "Advertising, Its Principles and Practice," by Tipper, Hotchkiss, Hollingworth and Parsons. Prerequisite, Psychology of Advertising, Psychology 23 or 33. Thacher.

Three hours, winter and spring terms.

108. Current Events. Allen. *One hour, each term.*

109. Estimating on Printing Jobs. Elective for seniors who expect to work in smaller cities. Prerequisite, course 103. Hall.

110. Business Management Laboratory. One hour a week, winter and spring terms. Allen, Hall.

112. Printshop Laboratory. Advanced work, a continuation of certain sections of 103 for the benefit of students expecting to manage job printing establishments. Hall.

120a, b, c. Trade Journalism. The greater industries of the United States and their specialized journalism. The principles of class journal publication; analysis of field (advertiser, subscriber, reader, contributor), financing the trade journal, writing for the trade journal, handling correspondents, editorial writing in technical fields, advertisement and circulation policies. Prerequisite, courses 102 and 103. Allen. *One hour each term.*

121a, b, c. Interpretative Newswriting. The higher branch of journalistic writing in which it is not enough to report the bare fact. Analysis of motives; study of probable consequences; exposition of the idea of principle underlying the fact. Political and economic news; feature writing and special articles, interpretative editorials. Prerequisite, 102. Dyment.

Three hours, each term.

122a, b. Typography of Advertising. The principles of effective typography. Printshop practice in the composition of specimen advertisements. Thacher, Hall.

One hour, winter and spring terms.

123a, b, c. Advertising Campaigns. A continuation of 106. Special advertising problems. In this course, each student conducts an actual campaign for a Eugene advertiser. Thacher.
Two hours, each term.

175a, b. Home Economics Journalism. This course is intended to equip Household Arts students as contributors to newspapers and magazines. Prerequisites: Journalism 102 and not less than fifteen credits in Household Arts. With parallel courses as advised after conference. Tingle, Allen.
Two hours, winter and spring terms.

For courses in Short Story (Thacher), Advanced Short Story (Thacher), Advanced Writing (Thacher) and Criticism (Collins), see department of Rhetoric and American Literature.

LATIN

Professors Dunn, H. A. Clark; Graduate Assistant Matthisen.

The needs of two distinct classes of students have been considered in the courses offered in Latin—1a, b, c and 2a, b, c being designed for Freshmen who enter without previous units and providing a rapid, inclusive resume of the usual four year course in High School Latin, while courses 21a, b, c and following are to meet the election of students who offer four units of Latin for entrance or have taken their equivalent in courses in the University. Courses 1a, b, c and 2a, b, c can not be counted toward a major, and students planning to make Latin their major subject should begin their lower division program with course 21 a, b, c. Students whose preparation has not included Ancient History should elect it in the lower division.

LOWER DIVISION

1a, b, c. Beginning Latin and Caesar. The year will begin with the First Year Book and close with the reading of two books of Caesar's Gallic War. Students must take all three terms to receive credit. Clark. *Five hours, each term.*

2a, b, c. CICERO'S ORATIONS AND VERGIL'S AENEID. Students electing this course must have had either two years of Latin in high school or 1a, b, c in the University. The year will be divided between four orations of Cicero and four books of Vergil's Aeneid. All three terms must be elected in order to receive credit. Clark. *Four hours, each term.*

21a, b, c. THE AUGUSTAN AGE. The year's program will include Horace's Odes and Epodes, one book of Livy (either I or XXI), and the Eclogues of Vergil, interspersed with selections from the Fables of Phaedrus and the Metamorphoses of Ovid. Dunn. *Three hours, each term.*

22a, b, c. THE SILVER AGE. The Agricola of Tacitus, Suetonius's Life of Augustus, and Quintilian's Book X will form the background of the year's work, relieved by selections from Martial's Epigrams and Pliny's Letters. Dunn.
Three hours, each term.

23a, b, c. THE DRAMA. Two plays each from Plautus, Terence, and Seneca will be supplemented with selections from the Fragmenta of Latin Poetry. Dunn. *Three hours, each term.*

24a, b, c. THE ELEGY. The Elegies of Tibullus and Propertius with the Tristia, Heroides, and Epistulae ex Ponto of Ovid will be interspersed with selections from Catullus. Dunn.
Three hours, each term.

UPPER DIVISION

101a, b, c. LESS READ LATIN AUTHORS. This is a selected reading course to be arranged according to needs and purposely left indefinite in order that different authors may be read and various epochs treated either in whole or in part. Dunn.
Three hours, each term.

111a, b, c. LATIN PEDAGOGY. This is intended to be a laboratory course for prospective teachers in Latin and includes a rapid survey of the four years of high school Latin, the discussion of all problems concerned with the authors themselves, and a review of first principles. Dunn.
Three hours, each term.

141. The Private Life of the Romans. Lectures will be supplemented with readings and reports, a knowledge of Latin not being prerequisite. Clark. *Three hours, fall term.*

142. Roman Literature. Lectures covering the entire field of Roman Literature will be supplemented with readings and reports. Dunn. *Three hours, winter term.*

143. The Topography of Rome. Lectures, supplemented with readings from original sources, will illustrate in rapid chronological order the monumental growth of Rome from prehistoric times to the fall of the Western Empire. Dunn. *Three hours, spring term.*

144. Our Inheritances from the Graeco-Roman Civilization. Stereopticon lectures, with readings and reports, will have for their general thesis the descent of our language, customs, pastimes, etc. from Greece and Rome. Dunn. *Three hours, fall term.*

145. Comparative Mythology. Ovid's Fasti will be the basis of lectures, readings, and reports upon the myths of Greece and Rome and the Indo-Aryan races in general. Dunn. *Three hours, winter term.*

GRADUATE DIVISION

201a, b, c. History of Latin Literature. Part I (Poetry) Dunn.

202a, b, c. History of Latin Literature. Part II (Prose) Dunn.

These courses, offered in alternate years, give a two-years' intensive study of Latin Literature, comprising extensive reading in the works of the lesser known authors as well as those familiar through the undergraduate course, together with lectures on their lives and style.

203a, b, c. Roman Philosophy. Lectures covering the chief systems of doctrine prevailing among the Romans will alternate with readings from Cicero's De Officiis and the best portions of Lucretius. Dunn.

204a, b, c. THE REIGN OF TRAJAN. Trajan's Reign will be studied from Pliny's Letters, from inscriptions, from monumental remains, and other sources. Dunn.

205a, b, c. THE REIGN OF NERO. Suetonius' Life of Nero and Tacitus' Annals are made the basis of a thorough study of this particular epoch. Clark.

251a, b, c. HISTORICAL LATIN GRAMMAR. A study of the development of Latin sounds, inflections, and syntax. Clark.

LAW

Dean HALE; Professors BARNETT, JUSTIN MILLER, WARNER; Associate Professors DECKER, JAMES MILLER; Lecturer BRYSON.

For description of courses see the School of Law bulletin.

MATHEMATICS

Professors DECOU, MILNE; Instructor COPENHAVER; Graduate Assistant THURSTON

Courses 2 and 6 are adapted to the needs of freshmen in the School of Business Administration. Courses 2, 3, 4 and 7 are required of students in architecture, and constitute the minimum adequate mathematical preparation for students majoring in chemistry or physics. Pre-engineering students, and those majoring in mathematics, military science or physics should take courses 2, 3 and 4 in freshman year and 102 in sophomore year.

To be recommended as a teacher of mathematics in the high school the student should take at least courses 2, 3, 4, 7, 101 and 105.

LOWER DIVISION

1. SOLID GEOMETRY. Copenhaver. *Four hours, fall term.*

2. ADVANCED ALGEBRA. An elementary course open to freshmen. Staff. *Four hours, any term.*

3. Plane Trigonometry. An elementary course open to freshmen. It should be preceded by Advanced Algebra, Course 2. Milne, Copenhaver. *Four hours, any term.*

4. Analytical Geometry. Open to freshmen who have had Advanced Algebra and Plane Trigonometry. Milne, Copenhaver. *Four hours, fall or spring term.*

6. Mathematical Theory of Investment. An elementary treatment of interest, annuities, valuation of bonds, sinking funds, building and loan associations, life insurance, etc. Prescribed in certain curricula in Business Administration. DeCou, Milne, Copenhaver. *Four hours, any term.*

7. Differential and Integral Calculus. An introductory course for literary and scientific students. Prerequisite Analytical Geometry, Course 4. Milne. *Four hours, winter and spring terms.*

8. Elements of Statistical Methods. The treatment is largely non-mathematical, but students will be benefited by taking Course 2 in Advanced Algebra beforehand. Prerequisite sophomore standing. DeCou. *Three hours, one term.*

UPPER DIVISION

101. Teaching and History of Mathematics. A study of the methods of teaching secondary mathematics; examination and comparison of recent texts as they exemplify these methods, and the humanizing of mathematics teaching through a knowledge of the history of the great men who developed the science. DeCou. *Three hours, spring term.*

102a, b, c. Differential and Integral Calculus. A fundamental course laying a thorough foundation for all future work in mathematics and its applications. DeCou. *Four hours, each term.*

103 a, b. Differential Equations. A practical course in the solution of Ordinary and Partial Differential Equations. Prerequisite, Course 102, Differential and Integral Cauculus. DeCou. *Three hours, winter and spring terms.*

104. Higher Algebra. A more advanced and rigorous treatment of the topics of the preceding course in Algebra, together with the addition of many new topics. (Not given in 1921-1922.) De Cou.

105. Theory of Equations and Determinants. An important course giving the essential principles required in various advanced studies. DeCou. *Three hours, one term.*

106. Solid Analytical Geometry. An advanced course dealing with surfaces of the second degree and their properties, together with some discussions of surfaces in general. Not given in 1921-1922. De Cou. *Three hours, one term.*

107 a, b. Advanced Calculus. An important course rounding out undergraduate study of mathematics. It includes definite integrals, improper integrals, power series, Fourier's series, elliptic functions and other special functions. Applications to Physics, Mechanics and Astronomy receive emphasis. Prerequisite, Course 102. Milne. *Three hours, fall and winter terms.*

108. Analytical Trigonometry. Prerequisite, Plane Trigonometry. Not given in 1921-22. DeCou. *Three hours, one term.*

110. Projective Geometry. Prerequisite, Courses 5 and 102. DeCou. *Three hours, one term.*

113. Advanced Analytical Geometry. A more advanced treatment of the subject, pre-supposing Course 4, and intended for students of fair mathematical maturity. DeCou. *Three hours, winter term.*

139. Applied Mathematics. This course is intended for students of Chemistry and Physics, and embraces a rapid review of Differential and Integral Calculus, with applications to problems of Physics and Chemistry; the development of Infinite Series; elements of Differential Equations; Fourier's Theorem; Theory of Probability and Adjustment of Errors; Calculus of Variations. A course in Calculus should precede this course. Hours to be determined. McAlister. *Three hours, two terms.*

GRADUATE DIVISION

201 a, b, c. THEORY OF FUNCTIONS. An introduction to the theory of functions of real and complex variables, with applications. Prerequisites, courses 103, 113 or their equivalent. Milne. *Three hours, each term.*

202. INFINITE SERIES. This course deals with tests for convergence, uniform convergence, operations on infinite series, and the expansion of functions. Milne. *Three hours, fall term.*

203 a, b. ELASTIC VIBRATIONS. The mathematical theory of simple harmonic motion, of vibrating strings and membranes. The elementary theory of Fourier's series and of Bessel's Functions is developed in connection with the concrete physical problems. Prerequisite, course 202. Milne. *Three hours, winter and spring term.*

204 a, b, c. MATHEMATICAL SEMINAR. Conferences and reports on assigned subjects. DeCou, Milne.

MECHANICS AND ASTRONOMY

Professor MCALISTER

MECHANICS

LOWER DIVISION

11a, b. ELEMENTARY MECHANICS. The course covers the fundamental principles of Statics and Kinetics, with applications to problems which can be solved by elementary methods. Trigonometry is a prerequisite *Three hours, winter and spring terms.*

UPPER DIVISION

101 a, b, c. ANALYTICAL MECHANICS. First term, statics; second term, particle dynamics; third term, dynamics of a rigid body. Calculus is a prerequisite. *Three hours, each term.*

102 a, b, c. APPLIED MECHANICS. A course for students of architecture, including analytical statics, and strength of materials. Calculus prerequisite. *Three hours, each term.*

GRADUATE DIVISION

201. THEORY OF ELASTICITY. The mechanics of elastic solids; applications to the strength, resistance and deformation of the ordinary materials of construction. *Four hours, fall term.*

202. HYDRODYNAMICS. The mechanics of fluids, with special reference to liquids, but including also some applications to air and other gases. The work of the second term requires a knowledge of spherical and cylindrical harmonics.

Four hours, one or two terms.

203. ADVANCED ANALYTICAL MECHANICS. Topics selected according to the needs of students, in relation to previous work and work contemplated in the future. *Four hours, one term.*

204. SPECIAL PROBLEMS. Advanced work in the applications of Mechanics, and problems relating thereto.

ASTRONOMY

UPPER DIVISION

121a, b. GENERAL ASTRONOMY. Descriptive in character, not involving mathematical discussions. Three lectures or recitations per week with an occasional evening of observation substituted for a lecture. *Three hours, winter and spring terms.*

122. PRACTICAL ASTRONOMY. Determination of time, latitude, longitude, and azimuth by astronomical methods. A working knowledge of trigonometry is necessary. One afternoon period and one evening period. *Three hours, spring term.*

GRADUATE DIVISION

225. CELESTIAL MECHANICS. The fundamentals of the subject with such applications as time may permit; including some consideration of the theory of perturbed orbits.

MEDICINE

Professor TORREY in Charge.

Medicine at Eugene is an administrative but not an instructional unit. It is most closely affiliated with the department of Zoology, whose head, Professor Torrey, has the oversight of all

students of medicine during their years of residence in Eugene.

The seven-year curriculum in medicine is printed in the Bulletin of the School of Medicine, which also contains the pre-medical courses for students entering prior to the fall of 1921.

MILITARY SCIENCE

Majors BAIRD, ROWLAND; Captain LEWIS;
Sgts. CONYERS, SULLIVAN.

Two years of military drill is required for all men during their first two years in the University.

Any member of the upper division who has completed two academic years of service in the University, who has been selected for further military training by the President of the institution and the Professor of Military Science and Tactics, and who executes a written agreement to continue in the R. O. T. C. during the remainder of his course at the University, will receive commutation of subsistence fixed by the Secretary of War, which will amount to about fifty cents per day. Two years of advanced military training cover a period of approximately five hundred and ninety days. The student would thus receive an allowance from the government of about three hundred dollars ($300.00) for the additional time spent in the R. O. T. C.

LOWER DIVISION

Courses 1, 2, and 3 are the minimum requirement for freshmen, and courses 4, 5 and 6 the minimum for sophomores. Courses 11 to 16 may be taken in place of the minimum courses, with additional credit.

1. FRESHMAN BASIC COURSE. 1, Military Courtesy; 2, School of the Soldier; 3, School of the Squad; 4, Nomenclature of the Rifle; 5, Preliminary Target Instruction; 6, Bayonet Practice.
One hour, fall term.

2. FRESHMAN BASIC COURSE. 1, Military Hygiene; 2, School of the Company; 3, Bayonet Practice; 4, Estimating Distance Drills; 5, Gallery Practice; 6, Guard Duty; 7, Field Equipment and Pack; 8, Guard Mounting; 9, Map Reading; 10, Combat Firing on Miniature "B" Range. *One hour, winter term.*

3. Freshman Basic Course. 1, Map Problems; 2, School of the Company; 3, School of the Battalion; 4, Small Problems for Infantry; 5, Guard Mounting; 6, Combat Firing on Miniature "B" Range; 7, Ceremonies; 8, Tent Pitching; 9, Individual Cooking; 10, Fire Direction and Fire Control Exercises; 11, Marching; 12, Combat Firing on "B" Range; 13, Range Practice.
One hour, spring term.

11. Freshman Military Science. Same as Course 1 plus outside supplementary reading. (Text books furnished by Military Department). *Two hours, fall term.*

12. Freshman Military Science. Same as Course 2 plus outside supplementary reading. (Text books furnished by the Military Department). *Two hours, winter term.*

13. Freshman Military Science. Same as Course 3 plus outside supplementary reading. (Text books furnished by the Military Department). *Two hours, spring term.*

4. Sophomore Basic Course. 1, Continuation of Course 3; 2, Signalling; 3, Minor Tactics; 4, Elementary Field Engineering.
One hour, fall term.

5. Sophomore Basic Course. 1, Continuation of Course 4; 2, Range Finding; 3, Gallery Practice; 4, Elementary Principles of Musketry; 5, Minor Tactics; 6, Ceremonies.
One hour, winter term.

6. Sophomore Basic Course. 1, Continuation of Course 5; 2, Elementary Principles of Musketry; 3, Minor Tactics; 4, Field Combat Problems; 5, Ceremonies; 6, Liaison; 7, Elementary Topography. *One hour, spring term.*

14. Sophomore Military Science. Same as Course 4 plus outside supplementary reading. (Text books furnished by the Military Department). *Two hours, fall term.*

15. Sophomore Military Science. Same as Course 5 plus outside supplementary reading. (Text books furnished by the Military Department). *Two hours, winter term.*

16. Sophomore Military Science. Same as Course 6 plus outside supplementary reading. (Text books furnished by the Military Department). *Two hours, spring term.*

UPPER DIVISION

Courses 101, 102 and 103 in the junior year and 104, 105 and 106 in the senior year are the minimum requirements for men seeking commissions. Courses 111-116 may be elected in addition to these minimum requirements.

101. Junior Advanced Course. 1. Practical work in instructing in military subjects; 2, Elementary Military Administration; 3, Minor Tactics; 4, Elementary Military Law; 5, Gallery Practice; 6, Ceremonies. Baird. *Three hours, fall term.*

102. Junior Advanced Course. 1, Practical work, instructing in military subjects; 2, Camp Hygiene; 3, Care of Troops in the Field; 4, Elementary Administration; 5, Minor Tactics; 6, Elementary Military Law; 7, Gallery Practice; 8, Ceremonies. Baird. *Three hours, winter term.*

103. Junior Advanced Course. 1, Practical work, instruct- in military subjects; 2, Minor Tactics; 3, Elementary Military Law; 4, Elementary Military Administration; 5, Combat Firing on "B" Range; 6, Range Practice; 7, Ceremonies; 8, Marching; 9, Guard Mounting. *Three hours, spring term.*

104. Field Fortifications. Rowland. *Four hours, fall term.*

105. Advanced Topography. Lewis. *Four hours, winter term.*

106. Advanced Military Law. Elements of the common law. Baird *Four hours, spring term.*

121. Senior Advanced Course. 1, Practical work, instructing in military subjects; 2, Problems in Administration; 3, Minor Tactics (map problems). Baird. *Three hours, fall term.*

122. Senior Advanced Course. 1, Practical work, instructing in military subjects; 2, Military History; 3, Military Policy. Baird. *Three hours, winter term.*

123. Senior Advanced Course. 1, Practical work, instructing in military subjects; 2, Minor Tactics; 3, Practical Problems in Road and Position Sketching; 4, Range Practice; 5, Combat Firing on "B" Range. Baird. *Three hours, spring term.*

124. Military Organization. (To include the Division). Study of supply. Baird. *Five hours, fall term.*

125. Musketry. Lewis. *Five hours, winter term.*

126. Tactical Walks. This course will consist of a practical application of all the theoretical and practical instruction which the student has received during the four years of military instruction. Baird. *Five hours, spring term.*

An opportunity is also offered to qualified members of the R. O. T. C. to obtain a commission as Second Lieutenant of the Regular Army for a period not exceeding six months, with allowance for that grade and with pay at the rate of one hundred dollars ($100.00) per month.

MUSIC

Dean Landsbury; Professors Beck, Evans, Underwood; Assistant Professor Coon

LOWER DIVISION

1. The Elements of Musical Science. A general course in the history, construction and treatment of harmonic forms. (a) Terminology, major and minor scales, intervals, major and minor triads, inversions—especially the "six-four chord"—general theory of harmonic progression, etc. (b) Dissonant combinations—especially seventh and ninth chords—open position, etc. (c) Modulation, foreign tones, contrapuntal chords, the augmented chords, enharmonic equivalents, modern scales and harmonizations, etc. Beck. *Three hours, each term.*

2. Contrapuntal Analysis. A study of the structural basis of the strict style in general and the inventions and earlier fugues of J. S. Bach in particular. Primarily a study of motive development. Prerequisite, Course 1. Coon. *Three hours, one term.*

3. Formal Analysis. The Musical Architecture of the free style, the career of the motive as influenced by the phrase, period and form, the song forms, developed ternary forms, etc. Texts, the sonatas of Haydn, Mozart, Beethoven, Schumann and Brahms. A practical course for those wishing to know the basis of interpretation. Prerequisite, courses 1 and 2. Landsbury.

Three hours, one term.

4. Harmonical Analysis. A study of the methods of harmonic reduction and expansion based upon the works of the classical and romantic composers. Closely related to course in Formal Analysis, with which it could be taken. Prerequisite, Courses 1, 2 and 3. Landsbury. *Three hours, one term.*

5. Thorough Bass. A course in the harmonization of basses and melodies (usually called "harmony") based upon the treatises of Emery, Richter, Judassohn and others. Accepted as a preparation for Counterpoint, but not as a substitute for Course 1. Evans. *Two hours, each term.*

6. Keyboard Harmony and Ear Training. A course aiming to teach students how to think music in the terms of the piano. Pre-requisite two terms of Course 1 or 5. Evans.

Two hours, one term.

10a, b, c. History and Appreciation of Music. Lectures dealing with the evolution of music, and the problems of intelligent listening. Illustrated with the victrola. Beck.

Two hours, each term.

12a, b, c. Public School Music. A study of the development and care of the child voice, and the music and methods adapted to the grades and high school. Melody writing, high school chorus work, and the use of the talking machine. Beck.

Three hours, each term.

13a, b, c. Scientific Music Reading and Choral Training. This course covers much the same ground as the usual sight singing course. However, the method of treatment is different in that syllables are not used and melody is considered in relation to its supporting harmonic structure. It is essentially an elementary course and is intended for those wishing for participation in larger choral efforts. Beck. *One hour, each term.*

15. Musical Interpretation of Motion Pictures. This course is an exposition of the principles underlying the proper adaptation of music to motion pictures, and will appeal to both professional and amateur. Particular emphasis is placed upon practical demonstration and the development of the student's resourcefulness. Organ students will find this course especially valuable. Evans. *Two hours, any term.*

21a, b, c. Orchestra. Underwood.
One third hour, each term.

22a, b, c. Ensemble. Underwood. *One hour, each term.*

31a, b, c. Orchestral Organization. Including elementary instruction in stringed instruments. Class limited to ten. Underwood. *One hour, each term.*

UPPER DIVISION

101a. Strict Counterpoint. Constructive counterpoint, including a consideration of the so-called "Harmonic Counterpart." A study of such texts as Fux, Cherubini, Bellerman, Richter and Goetschius, together with the works of Bach, Handel and Wagner. Landsbury. *Two hours, one term.*

101b, c. Double Counterpoint, Canon and Fugue. An elementary course dealing with the principles of double counterpoint in general, and the practical double counterpoints of J. S. Bach in particular. Simple types of canon and fugue, etc. Prerequisites Courses 1a, b, c, 2, and 101a. Landsbury.
Two hours, two terms.

102a, b, c. Free Composition. A study of the characteristic idioms of the free style; the variation, simple and developed song form; developed ternary form, the art song, etc. Not more than three will be permitted in the class. Pre-requisite Courses 1, 2, 3, 4, 6, 10, 107 and 108. Landsbury. *Two hours, each term.*

103. Musical Interpretation. Open only to piano students of collegiate rank. Especially designed for those who expect to teach. Landsbury. *Two hours, one term.*

123a, b, c. Literature of the Piano. Landsbury.
Two hours, each term.

GRADUATE DIVISION

201. SEMINAR. A study of present day musical conditions with particular reference to the adjustment of music to the curriculum. Lectures will be given occasionally. Each student will be given a definite research problem, and must defend his solution before the class. For the coming year it is planned to consider the nature of music; its relation to literature and science; progress toward the educational ideal in music, etc. Although intended primarily for graduates, advanced students in the Upper Division, showing proper preparation, will be admitted.

202. MULTIPLE COUNTERPOINT, CANON AND FUGUE. A course dealing with the principles of multiple counterpoint in general, and the double, triple, and quadruple counterpoints of J. S. Bach in particular; types of finite and infinite canon; simple, double and triple fugue; application of the strict style to orchestral and choral composition. *Two hours, each term.*

203. ADVANCED FREE COMPOSITION. Open to students showing marked creative ability, who have had adequate preparation. Classes will be limited to three members and each member must produce specimens in both the small and large forms which will be deemed worthy of publication or public performance.

204. PRACTICAL ARTISTRY. To be accepted, the student must possess a technique adequate to the needs of the classical, romantic and modern schools; he must have completed courses 1a, 1b, 1c, 2, 3, 4, 10, 101a, 101b, 102, 103; must be enrolled in courses 201 and 202, and must show promise of being able to demonstrate by public performance the beauty and cultural value of the tonal masterpieces.

(For instrumental music, voice, etc., see leaflet of the School).

PHILOSOPHY

Dean REBEC; Professor BATES; Graduate Assistant BYRNE.

LOWER DIVISION

51. ELEMENTARY LOGIC. *Four hours, fall term.*

52. ELEMENTARY ETHICS. *Four hours, winter term.*

53. INTRODUCTION TO PHILOSOPHY. *Four hours, spring term.*

UPPER DIVISION

101a, b, c. HISTORY OF PHILOSOPHY.
Three hours, throughout the year.

102. PHILOSOPHY OF HISTORY. The conflict of fundamental ideals in history.
Three hours, fall term. Every second year, alternating with 103.

103. SPECIAL AESTHETICS. The evolution of the aesthetic consciousness as revealed in the succession of historic art-epochs, more particularly in the supreme representative masterpieces of world literature.
Three hours, fall term. Every second year alternating with 102.

106. AMERICAN PHILOSOPHY, from Jonathan Edwards to James Royce, and Santayana.
Three hours, spring term. Every second year alternating with 107.

107. ORIENTAL PHILOSOPHY. An historical and critical survey.
Three hours, spring term. Every second year alternating with 106.

201a, b, c. PHILOSOPHICAL SEMINAR.

PHYSICS

Professors BOYNTON, CASWELL; Assistant Professor PRUETT
Assistant BRAMLEY

The introductory and general courses here listed are of entirely distinct types, intended for quite different groups of students. Course 1 is only for students who have not had high school physics, and may be taken any year. Courses 4 and 7 pre-suppose Course 1 or high school physics, and should not ordinarily be taken earlier than sophomore year. Course 4 is the one ordinarily taken, 7 being a more condensed course for pre-engineering and other students of strong mathematical preparation who are planning to supplement it with Course 111.

Students taking any of the general year courses, 1, 4, 7 or 111 need not expect credit for less than two terms work.

Prospective teachers of high school physics should include in their program courses 4, 100 and 101. Courses 104, 105 and 106 are also of especial interest to teachers.

LOWER DIVISION

1a, b, c. Essentials of Physics. An elementary course, carrying credit only for those who have not had high school physics. (a) Mechanics, molecular physics and heat. (b) Magnetism and electricity. (c) Sound and light. Pruett.
Three hours, each term.

4a, b, c. General Physics. Intended for students who have had physics in the high school and best taken in the sophomore year. Prescribed for students preparing for architecture and medicine. Lectures or recitations three times and laboratory or problem periods once (or twice) per week. Caswell.
Four or five hours, each term.

7a, b, c. Principles of Physics. A special section of the work in general physics for strong students with adequate mathematical preparation, open only to those who have had high school physics and freshman mathematics. Advised for physics and mathematics majors, and others who plan to take advanced courses in physics, and prescribed in the pre-engineering course. This course is not intended to be complete, but should be followed by Course 111. Two lectures or recitations and one laboratory period. Caswell. *Three hours, each term.*

UPPER DIVISION

100. Laboratory Arts. The administration of the physical laboratory, and the construction, adjustment, repair and manipulation of physical apparatus, including a study of home-made apparatus for high school laboratories, the elements of glass working, etc. Lectures, assigned readings and laboratory. Hours to be arranged. Caswell.

101. History and Teaching of Physics. Especially for prospective teachers of high school physics. Boynton.
Three hours, fall term.

104. Sound. A more extended treatment than that given in the general courses, intended especially for students of music. Textbook experimental lectures and a very complete collection of lantern slides. Considerable attention is given to the scientific basis of harmony and music, and to the physics of musical instruments. May be advantageously taken in connection with the course on the Psychology of Music. Pruett.

Three hours, each term.

105. Cosmic Physics. A treatment of the physical phenomena presented by the earth, atmosphere and celestial universe, such as air and ocean currents, distribution of temperature and moisture, weather observations and prediction, terrestial magnetism, aurora and sun spots. Pruett.

Three hours, winter term.

106. Photography. Photographic methods and appliances including lenses, sensitive plates and their treatment, and the common photographic papers. Pre-requisites, sophomore standing, a previous course in physics, and some familiarity with elementary chemistry. Two lectures and one laboratory period. Boynton. *Three hours, spring term.*

Note: Courses numbered above 110 require a full year of Lower Division Physics and the Calculus as pre-requisites.

111 a, b, c. Introduction to Theoretical Physics. Intended particularly as a supplement to Course 7, giving more attention to certain topics than the elementary courses, and especially to some of the more fruitful modern theories, such as the Kinetic theory, the Electromagnetic theory of light, the Electron theory, etc. Two lectures and one laboratory period. Caswell.

Three hours, each term.

114 a, b, c. Electrical Measurements. A course intended to give a familiarity with the more important electrical quantities, mainly by measurements and intercomparisons, with some reference to their practical applications. Fall term, direct currents, including a study of standards, the calibration of commercial instruments by the potentiometer, the intensity and distribution of illumination and the efficiency of incandescent lamps and the magnetic properties of iron; winter term, measurement of inductances

and the introduction to alternating current theory and measurements; spring term, the measurement of capacity and the theory of transient electrical phenomena, electrical oscillations and waves, and wireless telegraphy. Two lectures and one laboratory period. Boynton. *Three hours, each term.*

120. Advanced Laboratory. Including senior thesis. Department staff. *Hours to be arranged.*

121. Thermodynamics. A study of heat and related forms of energy as applied to ideal gases, saturated vapors and other simple types of substances. Especially for students of physics and physical chemistry. Boynton. *Three hours, fall term.*

122. Molecular Physics. A continuation of Course 121, including the kinetic theory of gases and liquids, the deduction and further discussion of van der Waals' equation and the theory of solutions. Boynton. *Three hours, winter term.*

123. Physical Optics. A study of such typical phenomena as refraction, dispersion, interference, diffraction and polarization. Lectures and laboratory. Pruett. *Three hours, spring term.*

124. Electron Theory. An introductory course dealing with cathode, canal and X-rays, ionization of gases, photoelectricity, radioactivity, atomic structure, thermoelectricity metallic conduction and the fundamental phenomena of light from the standpoint of the electron theory. Caswell. *Three hours, each term.*

130. Journal Club. Assigned readings with reports and conferences. The Department staff. *Hours to be arranged.*

GRADUATE DIVISION

200. Research Laboratory. Qualified students will have all facilities of the laboratories placed at their disposal and will receive the advice and assistance of the department. Boynton, Caswell.

201. Thermodynamical Potentials. A continuation of Course 121 based upon the work of Gibbs and others upon the various thermodynamic potentials and their application to problems in physics and chemistry. Boynton. *Three hours, fall term.*

202. Statistical Physics. With especial reference to certain problems in the Kinetic Theory, such as the equipartition theorem, the nature of entropy, etc. Boynton. *Three hours, winter term.*

203. The Conduction of Heat. With especial reference to the Fourier theory. Caswell. *Three hours, spring term.*

204. Modern Physical Theories. A discussion, largely from the historical standpoint, of such topics as the Electromagnetic theory of light, the Electron theory, Relativity and the Quantum theory. Caswell.

207. Advanced Electrical Theory. A study of the mathematical theory based upon Maxwell's work, with especial reference to electrical and magnetic fields, electrical oscillations and waves, and the basis of the electro magnetic theory of light. Boynton.

211. Advanced Mathematical Physics. Lectures and assigned readings. The topics treated will be varied from year to year to suit the needs of the students. Boynton, Caswell.

220. Seminar. Conferences and reports on assigned topics and current periodical literature. The Department staff.

POLITICAL SCIENCE

Professor Barnett

LOWER DIVISION

1a, b, c. Modern Governments. (a) American National Government. The national government, with special attention to practical operation and contemporary reform. (b) State and local governments. The state and local governments, with special attention to practical operation and contemporary reforms in Oregon. (c) European governments. The organization and operation of the governments of England, France, Germany, and Switzerland, with special attention to the government of England. Open to freshmen. *Four hours, each term.*

2. Introduction to Law. An introductory study of the nature and sources of law, the history of English and American

law, and the organization and operation of the courts, followed by a general consideration of the principal branches of the common law. Practice in the use of cases.

Four hours, fall term.

UPPER DIVISION

101. Constitutional Law. A study of the federal constitution as interpreted by the courts. Chiefly a discussion of leading cases. It is desirable that this course be preceded by Political Science 2. *Four hours, fall term.*

102. Administrative Law. The principles of the law of public officers. Chiefly a discussion of leading cases. Open to students credited with at least one course in law. *Three hours, winter term.*

103. Law of Municipal Corporations. The principles of the law of municipal corporations. Chiefly a discussion of leading cases. Open to students credited with at least one course in law. *Three hours, spring term.*

104. International Law. The principles of international law. It is desirable that this course be preceded by Political Science 2. *Four hours, one term.*

105. City Government. The organization and operation of city government in France, Prussia, England and the United States, with special attention to contemporary reforms in the United States. *Four hours, one term.*

106. Political Theory. A study of the main concepts of political theory, mostly from the works of modern writers. (Omitted 1921-22.) *Four hours, one term.*

107. League of Nations. The history and present status of the various forms of international organization, with special attention to the League of Nations. *Four hours, spring term.*

GRADUATE DIVISION

Advanced courses may be taken as graduate courses upon arrangement for additional readings, theses and conferences.

201a, b, c. Research in Political Science.

PRE-ENGINEERING

Professor CASWELL, Chairman in Charge.

The department of pre-engineering is an administrative but not an instructional department. It provides a three-year curriculum articulating with the best engineering schools of the country, who accept for advanced standing recommended students who have completed this curriculum. This course is under the oversight of a committee whose chairman, Professor Caswell, acts as adviser to pre-engineering students.

PSYCHOLOGY

Professors CONKLIN, WHEELER; Assistant Professors CROSLAND, YOUNG; Instructor HAGER.

No courses in this department are open to freshmen.

LOWER DIVISION

Special attention is called to the rearrangement of the work in elementary psychology, effective in the fall term of 1921-1922. Five sections of beginning work in psychology are offered; in one of these emphasis is placed upon the problems in psychology arising in advertising, in another upon the problems appearing in vocational work, and in the other three sectinos, attention is given to such topics as the instincts and emotions, etc., previously distributed throughout the year. These sections have distinctive numbers. Students beginning their work in any of these sections will fill out the year with the two term course 1a, b, elementary psychology, which will have sections at the same hours as the specialized first term courses. The treatment in all these sections will be substantially the same.

Credit will be given for the fall term's work alone, but those taking course 1 must complete both the winter and spring terms' work to receive credit.

Students may satisfy the science group by taking three consecutive terms work with laboratory each term.

21. Social Psychology. A study of the instincts, emotions, sentiments, self, and individual differences. Conklin, Crosland, Young. *Three hours, fall term.*

31. Social Psychology. Course 21 with the addition of one laboratory period per week. Conklin, Crosland, Young, Hager. *Four hours, fall term.*

22. Vocational Psychology. The psychological aspects of vocational problems, personnel and elementary testing, fatigue, mental attitudes, etc. Young. *Three hours, fall term.*

23. Advertising Psychology. Elementary psychological problems as they arise in and are illustrated by advertising. Crosland. *Three hours, fall term.*

32. Vocational Psychology. Course 22 with the addition of one laboratory period per week. Young, Crosland. *Four hours, fall term.*

33. Advertising Psychology. Course 23 with the addition of one laboratory period per week. Crosland, Hager. *Four hours, fall term.*

1a, b. Elementary General Psychology. Lectures, discussions and classroom demonstrations covering largely from the experimental point of view the elements of consciousness, their relation to the nervous system and the phenomena of sensation, habit, attention, association, learning, memory, perception, imagination, reasoning and will. Arranged in five sections to coordinate with the work given in the fall term. Students should take that section in the winter term which comes at the same hour as the section in which they were registered in the fall term. Department staff. *Three hours, winter and spring terms.*

11a, b. Elementary General Psychology. Course 1a, b, with the addition of one laboratory period per week. Department staff. *Four hours, winter and spring terms.*

UPPER DIVISION

103 a, b, c. Systematic Psychology. An intensive study of the physiological correlate of psychology, of psychological systems

and of the monographic literature on the more vital problems in experimental psychology. Wheeler. *Three hours, each term.*

104. Abnormal Psychology. Traits and theories of hysterical phenomena, insanity and the borderland phenomena. Conklin. *Three hours, one term.*

105. Mental Hygiene. This course is the complement of No. 104. It covers the conditions of efficient mental activity so far as they have been determined, the methods and results of the studies of mental fatigue, the hygiene of the emotions and of the intellectual processes, and the causes and prevention of insanity. Elementary psychology is a pre-requisite. (Not given 1921-22.) Conklin. *Three hours, one term.*

106 a,b. Adolescence. An elaborate study of genetic psychology and the writings of G. Stanley Hall. Conklin. *Three hours, two terms.*

107a, b, c. Research and Thesis. Designed for advanced students in laboratory technique. Courses 1 and 103 are indispensable pre-requisites. Special training is given in methods of research by participation in original researches under the personal direction of the instructor. Hours to be arranged. Conklin, Wheeler. *Two or three hours, each term.*

108. Mental Measurements. Principles and practice of testing intelligence and individual differences. Wheeler. *Three hours, one term.*

109. Psychology of Learning. Genetic and comparative study of learning in the behavior of organisms from the lowest up to and including man. Wheeler. *Three hours, one term.*

110. The Individual and the Group. An analysis of the behavior of individuals in groups. Young. *Three hours, one term.*

111. Character and Personality. Concerns the growth of character and the integration of personality. Young. *Three hours, one term.*

112. Ethnic Psychology. Racial differences in mental traits, racial development, and the spread of cultural areas. Young. *Three hours, one term.*

113. Employment Psychology. Applications of psychology to employment problems, vocational testing, personnel work, etc.
Three hours, one term.

114. Special Problems in Social Psychology. Intensive reading on individually assigned topics. Young.
One to three hours, one term.

117 a, b, c. Advanced Laboratory. A thorough training in laboratory technique as used in the problems of general psychology. Crosland. *Two hours, three terms.*

120. Comparative Psychology. A study of the behavior of living organisms with a comparison of the mental life of animals with that of man. (This course has been temporarily withdrawn). Wheeler. *Three hours, one term.*

121. Psychology of Music. The following are among the topics presented: Audition in general, origin of music, musical enjoyment, phases of mental equipment contributing to musical talent, applications of general psychology to the memorizing and teaching of music and to the playing of musical instruments, and some aspects of the psychology of musical appreciation. This course is given occasionally as facilities and demand permit. Wheeler. *Three hours, one term.*

122. Principles of Psychoanalytic Psychology. An introduction to the literature and concepts of psychoanalysis. Conklin.
Two hours, one term.

For courses in educational psychology see announcement of the Department of Education.

GRADUATE DIVISION

201. History of Psychology. The contributions of the classical psychologists from the early Greeks to the founders of modern psychology with consideration of developmental tendencies, schools of thought and culture influences constitute the content of the course. Most of the work is done through class discussion of the assigned readings in original texts. Conklin.
Three hours, winter term.

202. Seminar in History of Psychology. A continuation of Course 201, for which that course or its equivalent is an indispensable pre-requisite. Here the history of special subjects or schools of thought is intensively studied by individual assignment. Conklin. *Two hours, spring term.*

203. Methodology. A comparative study of the various methods used in psychological research. Conklin. *Three hours, fall term.*

204. Psychoanalytic Theory. An intensive study of the literature of psychoanalytic psychology. (Should be preceded by Course 122 or its equivalent.) Conklin. *Two hours, spring term.*

205. Advanced Experimental Pschology. An intensive training in the introspective method and its application to experimental problems. Designed to train the student to introspect. The student is introduced to an experimental problem which he must attempt to solve by the introspective method. The student acts as observer and the instructor as experimenter. The student is then required to organize and interpret his own results. An analysis of the literature and criticisms of the introspective method. Wheeler. *Two hours, any term.*

206. Advanced Physiological Psychology. Devoted to the current experimental literature in the physiology of sensation and the emotions, to such neurological problems as directly affect an understanding of advanced psychology, involving the problems of nerve regeneration and degeneration, localization of function, the nerve structure and function underlying speech, etc. A continuation of the work offered in Systematic Psychology (103). Wheeler. *Two hours, spring term.*

207. Research and Thesis. Original work for thesis purposes under the direction of the instructor in charge. Conklin, Wheeler.

208. The Higher Thought Processes and Volition. An intensive study of judging, reasoning, the psychology of purpose and the psychology of volition. Each subject is considered historically and genetically, its relations to other mental processes discussed, and the experimental literature thoroughly reviewed. Each

process is also studied from various angles—the introspective, the purely subjective, the behavioristic, the objective, the structural and dynamic. Wheeler. *Two hours, spring term.*

209. Behaviorism. A historical approach to the problem of behaviorism followed by a logical, philosophical, theoretical and experimental examination of its position. In this latter study the more general and fundamental points are first taken up, followed by a detailed application of these general principles to specific problems of sensation, affection, attention, memory, perception, learning and the higher intellectual processes. The course involves a critical analysis of psychophysical parallelism in its various forms and other attempts to envisage the mind-body relation, and a detailed discussion of the problem of structure versus function in psychology. (Offered alternately with Course 205.) Wheeler. *Two hours, winter term.*

210. Psychology of Memory and the Image. A rigorous analytical and synthetic treatment of the various phases of mental organization manifested in conscious memory phenomena and in the image of imagination. Dissociation, assimilation, organization and generalization of memory contents will be thoroughly studied and illustrated, together with many technical as well as practical applications of the facts here presented. The course will also treat of the symbolic nature of memory phenomena tending toward a treatment of abstraction and conception. Crosland. *Two hours, winter term.*

211. Psychology of Attention and Perception. A detailed and systematic handling of the various factors and the various aspects of attention phenomena and the phenomena of perception and apperception. Various points of view, of behaviorist, objectivist, centralist, subjectivist, idealist, realist, nativist and empiricist will be presented, and special attention will be given to the modern conception of attention and perception so influential in medicine, psychiatry, ethics, and education. The course will be primarily one dealing with cortical and cerebral mechanisms of an organized, assimilated, apperceptive nature; and the dynamic, perseverative, projective nature of these organized mechanisms in experience. The course will show how easily the phenomena of attention and perception, including the phenomena of apperception,

can be regarded as stepping stones from normality to abnormality, as comprising a list of phenomena making the "borderland" between mental health and mental disease. Crosland.

Two hours, spring term.

212. Psychology of Religion. The place and nature of religious experience in human behavior, social and personal. The psychological aspects of belief, conversion, prayer, sacrifice, myth, ritual, and ceremony. Illustrative material from primitive and historical religions. (Not offered in 1921-1922.) Young.

Three hours, one term.

213. Criminal Psychology. The bio-psychological foundations for the study of criminal types. A critical survey of psychological methods of diagnosis and treatment of crime. (Not offered in 1921-1922.) Young. *Three hours, one term.*

215 a, b, c. Psychology Seminar. This meets weekly and is attended by all members of the teaching staff and graduate students. Topics for presentation and discussion are selected in general conference from term to term.

ROMANCE LANGUAGES

Professor Cloran; Assistant Professor Fayard-Coon; Instructors Cuevas, Espinosa, Gouy, Gray, Thompson, Thorstenberg, White; Graduate Assistant du Buy.

A knowledge of Latin is helpful in the study of Romance Languages and is practically indispensible to majors in the department.

Students planning to teach French should take at least Courses 1, 2, 103, 105 and 106. Similarly those planning to teach Spanish should take at least Courses 11, 12, 113, 115, 117 and 160.

Classes beginning French and Spanish are provided for students entering the University in January. These classes meet five hours a week for five consecutive terms. Students who have entrance credit for two years of high school French or Spanish take the second year in college unless very high scholarship entitles them to enter third year courses. No credit is given if the first year work is repeated in college. Students who have

entrance credit for one year of high school French or Spanish take the third term work in college. No credit is given for the first half year if the first year is repeated in college, but credit is given for the second half year (7½ hours). Students who have entrance credit for three years of high school French or Spanish take third year courses in college. No credit is given if the second year work is repeated in college.

LOWER DIVISION

1a, b, c. First Year French. Cerf and Giese's Beginning French Grammar. Pronunciation, composition, conversation, translation of French prose and poetry. Daily. Fayard-Coon, Gray, Gouy. *Five hours, each term.*

2a, b, c. Second Year French. Review of grammar, composition, conversation, translation of modern French authors. Fayard-Coon, Gray, Gouy. *Four hours, each term.*

3a, b. Second Year French. An abridgment of course 2 for students beginning the course in the winter term. Gray. *Five hours, winter and spring terms.*

8a, b, c. Second Year French, Scientific. Reading of scientific French, review of grammar. Thorstenberg. *Three hours, each term.*

11a, b, c First Year Spanish. Olmsted's First Spanish Course, composition, conversation, translation of Spanish prose and poetry. Daily. Thompson, Whyte, Cuevas, Espinosa. *Five hours, each term.*

12a, b, c. Second Year Spanish. Review of grammar, composition, conversation, translation of modern Spanish authors. Thompson, Whyte, Cuevas, Espinosa. *Four hours, each term.*

13a, b, c. Second Year Spanish. An abridgment of course 12 for students beginning the course in the winter term. Whyte. *Five hours, winter and spring terms.*

20a, b, c. Second Year Spanish (Commercial). A course planned for students in the School of Business Administration. A continuation of the first year's work, with a special emphasis

on commercial vocabulary. Readings and exercises from Latin-American sources. Pre-requisite, Spanish 11, or two years high school Spanish. Whyte. *Four hours, each term.*

UPPER DIVISION

103a, b, c. FRENCH LITERATURE. (Third year French). Reading of French authors of the nineteenth century. History of French literature. Cloran. *Three hours, each term.*

105a, b, c. FRENCH CONVERSATION AND COMPOSITION. (Third year French. Fayard-Coon. *Three hours, each term.*

106a, b, c. FRENCH CONVERSATION AND COMPOSITION. (Fourth year French). Course 105 is required as prerequisite for admission. Gouy. *Two hours, each term.*

107a, b, c. FRENCH PRONUNCIATION. (Fourth year French). Gouy. *One hour, each term.*

108a, b, c. SCIENTIFIC FRENCH. (Third year French). Thorstenberg. *Two hours, each term.*

113a, b, c. SPANISH LITERATURE. (Third year Spanish). Reading of nineteenth century authors. History of Spanish literature. Cloran. *Three hours, each term.*

114a, b, c. SPANISH LITERATURE OF THE SEVENTEENTH CENTURY. (Fourth year Spanish). Not given in 1921-1922. Cloran. *Three hours, each term.*

115a, b, c. SPANISH COMPOSITION AND CONVERSATION. (Third year Spanish). Cuevas. *Three hours, each term.*

117a, b, c. SPANISH COMPOSITION AND CONVERSATION. (Fourth year Spanish). Course 115 is required as a prerequisite for admission. Cuevas. *Two hours, each term.*

120a, b, c. ELEMENTARY ITALIAN. Grammar, composition and translation of modern authors. Cloran. *Three hours, each term.*

130a, b, c. ELEMENTARY PORTUGUESE. Branner's Portuguese Grammar. Reading of Portuguese prose and poetry. Open to students who have had two years of Spanish. Espinosa. *Two hours, each term.*

160 a, b, c. COMMERCIAL SPANISH. Spanish commercial correspondence, business forms, industrial readings, conversation. Prerequisite, Spanish 12, or 20, or three years high school Spanish.
Three hours, each term.

161 a, b, c. ADVANCED COMMERCIAL SPANISH. An intensive study of two or more Latin-American countries. Textbooks will be used as guides, with supplementary reading from Spanish-American periodicals and newspapers. Conversation on business affairs, and current events. Study of scientific and technical vocabulary. Prerequisite, Spanish 160.
Two hours, each term.

GRADUATE DIVISION

206a, b, c. OLD FRENCH. Reading of selected texts, grammar and phonology. Cloran *One hour, each term.*

207a, b, c. HISTORY OF FRENCH LITERATURE with reading of selections from the great writers. Not given in 1921-1922. Cloran. *Three hours, each term.*

208a, b, c. FRENCH LITERATURE. Reading of French authors, especially of the seventeenth and eighteenth centuries. History of French literature. Cloran. *Three hours, each term.*

217a, b, c. SPANISH LITERATURE. A course similar in character and purpose to 207a, b, c. Cloran. *Three hours, each term.*

220a, b, c. ADVANCED ITALIAN. The Classic period of Italian Literature. Readings from Dante, Boccaccio and Petrarch. Cloran. *Two hours, each term.*

SOCIOLOGY

Dean YOUNG; Professor PARSONS; Instructor BAIN.

1a, b. SOCIAL ORIGINS, EVOLUTION AND GROWTH. The origin of man and of the races of men is studied. The evolution of the fundamental institutions, language, law, religion, the family and the state are traced. The building up of a unified and comprehensive view of the conditions under which the different races of men advanced to higher planes of living is sought. Sophomore standing. Bain. *Three hours, fall and winter terms.*

1c. PSYCHOLOGICAL FOUNDATIONS. The origin and development of human personality through social contact is traced. The play of the different social processes and the establishment of attitudes, habits and relationships are traced as they are determined by the instincts and other elements in human nature. The modifying and directing of the human dispositions toward the attainment of higher ideals are studied. Prerequisite, Course 1. Bain. *Three hours, spring term.*

UPPER DIVISION

104 a, b. PRINCIPLES OF SOCIOLOGY. The influences and factors determining human life in association are studied. A comprehensive view of the social process is developed. Bain.
Five hours, fall and winter terms.

105. THE NEW SOCIAL ORDER. The factors in the present situation of western civilization causing movements for reorganization are examined. The leading programs for the attainment of a new social order are analyzed. Young. *Five hours, spring term.*

110 a, b, c. INTRODUCTION TO PHILANTHROPY. The course is designed to give the student the social and economic backgrounds of the Social Problem as well as the development of the Modern Social Movements. In the first term the historic elements of the social problem will be considered; in the second, the development of modern social work, and in the third term, modern movements for social betterment will be studied. Pre-requisite: Course 104. Parsons. *Two hours, each term.*

112. TEACHING OF THE SOCIAL SCIENCES. Young.
One hour, winter term.

114 a, b, c. SOCIAL PATHOLOGY. The problems of abnormal social groups will be studied in this course. The first term will be devoted to the study of the nature of social pathology and the problems of dependency. In the second term the defective groups will be considered. In the third term, attention will be given to criminology. Prerequisite: Course 104. Parsons.
Two hours, each term.

136 a,b. THEORY OF SOCIAL PROGRESS. Concepts of the social self and of progress are developed and the roles of the different factors affecting progress are determined. Young.

Three hours, fall and winter terms.

140. COMMUNITY ORGANIZATION AND DEVELOPMENT. The unit of focus of common life is defined and the organization for it that will serve to bring into play most effective functioning for normal development. Bain. *Three hours, spring term.*

145. COOPERATION AND THE NEW GUILD. Young.

Three hours, spring term.

GRADUATE DIVISION

202 a, b. SOCIOLOGICAL SYSTEMS. Selected systems of thought essaying to interpret the course of human history are analyzed with the view of determining their fundamental ideas. The evolution to clearness and scientific character of the hypotheses used, through their receiving increasing support of natural and psychological science, is traced. Pre-requisite: Course 104.

Five hours, fall and winter terms.

203. SOCIAL SURVEY. Diagnosis of social problems and methods of social investigation; formulation of community programs; presentation of social facts and survey findings. Pre-requisite: Course 104. *Three hours, fall term.*

204. SOCIAL STATISTICS. Principles of statistics and their application to the data furnished by official publications and special investigations; statistical methods applied to both theoretical and practical problems of sociology Pre-requisite: Course 104.

Three hours, winter term.

205. TOWN, CITY AND REGIONAL PLANNING. Study of the principles of city planning and the relation to regional, state and national planning. Formulation of programs of development based upon fundamental principles of progress. Pre-requisite: Courses 104, 203, and 204. *Three hours, spring term.*

210a, b, c. THE SOCIAL WORK OF THE PROFESSIONAL MAN AND WOMAN. For seniors and graduates. Parsons.

Two hours, each term.

211. SEMINAR IN APPLIED SOCIOLOGY. Admission by permission of instructor. Parsons.

ZOOLOGY

Professor TORREY; Assistant Professors LANCEFIELD, YOCOM; Instructor HORNING.

This department has the supervision of medical students during their years of residence in Eugene. The Bulletin of the School of Medicine gives full details of the premedical courses for students entering prior to the fall of 1921, and the seven-year course in medicine effective for freshmen entering the University in the fall of 1921.

For prospective teachers of biology the following courses are especially recommended: 1, 4, 101, 102, 103, 104, 105, 106, 107.

LOWER DIVISION

1 a, b, c. ANIMAL BIOLOGY. A general introduction to the fundamental principles and problems of biology. Prerequisite to all other courses in the department. Two lectures and two two-hour laboratory periods weekly. Torrey, Horning.

Four hours, each term.

4. FIELD ZOOLOGY. A study of the local fauna, including habits and habitats, life histories, ecological associations, taxonomy, economic problems. Prerequisite, Course 1. Two lectures and six hours of field and laboratory work.

Four hours, spring term.

101 a, b. HUMAN PHYSIOLOGY. Pre-requisites, Course 1 and elementary chemistry. Three lectures and one laboratory period. Lancefield. *Four hours, fall and winter term.*

102. GENERAL PHYSIOLOGY. Lancefield.

Four hours, spring term.

103. GENERAL EMBRYOLOGY. Based on the development of the chick. Pre-requisite, Course 1. Yocom.

Five hours, winter term.

104. Advanced Embryology. Pre-requisite, Course 103. *Five hours, spring term.*

105. Organic Evolution. Open to upper division students without pre-requisite. *Two hours, fall term.*

106. Heredity and Eugenics. A continuation of 105. *Two hours, winter term.*

107. Cytology and Comparative Histology. A study of the cell as the unit of structure and function in organisms. Pre-requisite, Course 1. Yocom. *Four hours, fall term.*

108a, b. Anatomy. (a) Vertebrate. (b) Mammalian. One lecture and nine hours of laboratory work. Yocom. *Four hours, fall and winter terms.*

115. Genetics. Lancefield. *Three hours, spring term.*

120. Special Problems. Hours to be arranged. Department staff.

150. Marine Zoology. Studies may be pursued at the Marine Biological Laboratory, Friday Harbor, Washington, where, every summer, courses are offered in co-operation with the University of Washington, to whose circulars of information the student is referred for particulars.

GRADUATE DIVISION

201a, b, c. Seminar. Torrey. *Each term.*

203. Research. Topics to be arranged upon consultation with the professor in charge of the student's work. Torrey, Yocom, Lancefield.

The University of Oregon

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