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GOUCHER COLLEGE
BALTIMORE, MD.



ANNOUNCEMENT OF COURSES
FOR 1925-1926

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GOUCHER COLLEGE
SCHEDULE OF CLASSES 1925-1926

SUBJECT	COURSE	TIME	ROOM	HALL	SUBJECT	COURSE	TIME	ROOM	HALL
Art	1-2b	10.15 M, W	15	Goucher	History	53, 54	8.50 Tu, Th, S	28	Goucher
	1-2d	12.15 Tu, Th	15			57, 58	2.00 Tu, Th	28	
	3-4a	8.50 Tu, Th	15			61, 62	8.50 M, W, F	28	
	3-4c	11.15 W, F	15			65-66	10.15 Tu, Th, 9.50 S	28	
	7, 8	2.00 Tu, Th	15			82	10.15 M, W	22	
						91-92	3.00 Tu	22	
Biblical Literature	1, 2a	8.50 Tu, Th, S	11	Goucher	Latin	93-94	11.15 M, W, F	22	Goucher
	1, 2c	11.15 M, W, F	11			95, 96	10.15 M, 12.15 Tu, Th	22	
	1, 2cc	11.15 Tu, Th, 10.50 S	11			A1-2	11.15 M, W, F	24	
	1, 2e	2.00 M, W, F	11			B1-2	10.15 Tu, Th, 9.50 S	26	
	1, 2x	10.15 M, 12.15 Tu, Th	11			5-6	2.00 Th	26	
	5, 6	8.50 M, W, F	11			9, 10a	8.50 M, W, F	26	
	7, 8	2.00 Tu, Th	31			9, 10aa	8.50 Tu, Th, S	26	
	10	10.15 Tu, Th, 9.50 S	31			11-12	2.00 M, W, F	26	
	15	10.15 M, W	22			15, 16			
	Biology	1a and 2	8.50 Tu			Alfheim	Mathematics	19-20	
1b		10.15 Th	21, 22						
1a and 2 conf.		8.50 Th or S	41, 42	12.15 Tu, Th	26				
1b conf.		10.15 Tu or 9.50 S	2	10.15 Tu, Th, 9.50 S	33			Vanaheim	
1 lab.a		11.15-1.05 M, W	3b	10.15 Tu, Th, 9.50 S	31				
1 and 2 lab.b		11.15-1.05 Tu, Th	3c	11.15 M, W, F	21				
1 lab.c		3.00-5.00 M, W	3cc	11.15 M, W, F	31				
1 and 2 lab.d		3.00-5.00 Tu, Th	3ccc	11.15 Tu, Th, 10.50 S	31				
3-4		2.00 Tu	5	8.50 M, W, F	31				
3-4 lab.		3.00-5.00 Tu, 2.00-5.00 Th	8a	8.50 M, W, F	31				
5-6		2.00 M	8c	11.15 M, W, F	21				
5-6 lab.		3.00-5.00 M, 2.00-5.00 W	8cc	11.15 M, W, F	31				
7		2.00 M, W	8ccc	11.15 Tu, Th, 10.50 S	31				
7 lab.		3.00-5.00 M, W, 2.00-5.00 F	9-10	11.15 Tu, Th, 10.50 S	33				
8		2.00 M	13, 14a	8.50 M, W, F	33				
8 lab.		3.00-5.00 M, 2.00-5.00 W	13, 14aa	8.50 Tu, Th, S	33				
9, 10		2.00 Tu	15-16	12.15 Tu, Th	33				
9, 10 lab.		3.00-5.00 Tu, 2.00-5.00 Th	17-18	10.15 M, W	33				
13-14		10.15 W	19	10.15 Tu, Th, 9.50 S	33				
13-14 lab.		2.00-4.30 F	23, 24	2.00 Tu	33				
15-16		11.50 S	32	10.15 Tu, Th, 9.50 S	31				
20	12.15 M, W, F	33-34	11.15 M, W, F	33					
Chemistry	1-2a	8.50 M, W, F	Catherine Hooper	Philosophy	42	3.00 M, W, F	33		Goucher
	1-2c	11.15 M, W, F			1 and 2b	10.15 Tu, Th, 9.50 S	11		
	1-2 lab.a	10.15-12.05 M, W			1 and 2d	12.15 M, W, F	11		
	1-2 lab.b	11.15-1.05 Tu, Th			1 and 2e	2.00 M, W, F	37		
	1-2 lab.c	3.00-5.00 M, W			2a	8.50 M, W, F	37		
	1-2 lab.d	2.00-4.00 Tu, Th			2aa	8.50 Tu, Th, S	24		
	3	8.50 Tu, Th			2bb	10.15 Tu, Th, 9.50 S	19		
	3 lab	2.00-5.00 Tu			2c	11.15 M, W, F	26		
	5	8.50 Tu, Th, S			2cc	11.15 Tu, Th, 10.50 S			
	5 lab	2.00-4.00 Tu, Th			3, 4	11.15 Tu, Th, 10.50 S	21		
	7-8	2.00-5.00 Th			5, 6	11.15 M, W, F	21		
	20	8.50 Tu, Th, S			7, 8	8.50 Tu, Th, S	21		
	20 lab	2.00-5.00 Tu, Th			9-10	10.15 Tu, Th, 9.50 S	37		
	21	12.15 Tu, Th			11	8.50 M, W, F	37		
	21 lab.a	2.00-5.00 M, W			Physical Education	a	8.50 M, W, F	Bennett	
	21 lab.b	2.00-5.00 Tu, Th				b	10.15 M, W, 12.15 Th		
	22 and 23	2.00-5.00 Tu, Th				c	11.15 M, W, F		
	26	To be assigned				d	12.15 M, W, F		
	26 lab	To be assigned				e	2.00 M, W, F		
	40	11.15 M, W, F				f	8.50 Tu, Th, S		
	40 lab.a	2.00-5.00 M				g	10.15 Tu, Th, 9.50 S		
	40 lab.b	2.00-5.00 Tu				h	11.15 Tu, Th, 10.50 S		
	41-42	10.15 Tu, Th, 9.50 S				Sophomores	a		
41-42 lab.a	2.00-5.00 W	b	10.15 M, 12.15 Tu, Th						
41-42 lab.b	2.00-5.00 Th	c	11.15 M, W, F						
43 and 44	2.00-5.00 W or Th	d	12.15 M, W, F						
45	10.15 M, W	e	2.00 M, W, F						
45 lab	2.00-5.00 W, Th	f	8.50 Tu, Th, S						
46	2.00-5.00 W, Th	g	11.15 Tu, Th, 10.50 S						
60	10.15 M, W, 12.15 Th	Physics	1-2c	11.15 M, W, F	Catherine Hooper				
62	2.00-5.00 M		1-2d	12.15 M, W, F					
71-72	12.15 M, W		1-2 lab.a	2.00-5.00 M					
71-72 lab	12.15-5.00 F		1-2 lab.b	2.00-5.00 Tu					
81	8.50 S		1-2 lab.c	2.00-5.00 W					
92	10.15 Tu, Th		1-2 lab.d	2.00-5.00 Th					
Economics and Sociology	1-2a		8.50 M, W, F	3-4		8.50 Tu, Th, S	1st floor		
	1-2aa		8.50 Tu, Th, S	3-4 lab.a		2.00-5.00 Tu			
	1-2c		11.15 M, W, F	3-4 lab.b		2.00-5.00 F			
	1-2cc		11.15 Tu, Th, 10.50 S	5		10.15 Tu, Th, 9.50 S			
	1-2x	10.15 M, 12.15 Tu, Th	8	11.15 M, W, F					
	3, 4	11.15 M, W, F	9	11.15 Tu, Th, 10.50 S					
	5	11.15 Tu, Th, 10.50 S	9 lab	12.15-5.00 Tu					
	7	2.00 M, W, F	11 or 12	11.15 M, W					
	9, 10	12.15 M, W, F	11 or 12 lab	To be assigned					
	20	11.15 Tu, Th, 10.50 S	14	11.15 Tu, Th, 10.50 S					
	21 and 22	3.00 M, W, F	14 lab	12.15-5.00 Tu					
	23	8.50 Tu, Th, S	15-16	12.15 M, W, F					
	24	11.15 M, W, F	15-16 lab	12.15-5.00 W					
	26	8.50 Tu, Th, S	17-18	8.50 M, W, F					
	28	10.15 Tu, Th, 9.50 S	Physiology	1 and 2b	10.15 Tu, Th, 9.50 S	Bennett			
	41d	12.15 M, W, F		1 and 2 dst.b	10.15-1.05 W				
41e	2.00 M, W, F	1 and 2 dst.c		2.00-5.00 M					
42	8.50 M, W, F	1 and 2 dst.f		2.00-5.00 Th					
43a	8.50 M, W, F	2a		8.50 Tu, Th, S					
43b	10.15 Tu, Th, 9.50 S	2 dst.a		10.15-1.05 M					
44	12.15 M, W, F	2 dst.d		2.00-5.00 Tu					
45 and 46	2.00 M, W, F	2 dst.e		2.00-5.00 W					
50	2.00 M, W, F	2 dst.g		2.00-5.00 F					
Education	1 and 1R	10.15 M, W		3	10.15 M, W		1st floor		
	2, 3a	8.50 Tu, Th, S		3 lab	2.00-5.00 Tu				
	2, 3d	12.15 M, W, F		6	8.50 M, W				
	2, 3e	2.00 M, W, F		6 lab	2.00-5.00 M				
	5-6a	8.50 M, W, F		7, 8	2.00 M				
	5-6b	10.15 Tu, Th, 9.50 S		7, 8 lab	3.00-5.00 M, 2.00-5.00 W				
	7, 8c	11.15 Tu, Th		9	8.50 Tu, Th, S				
	7, 8d	12.15 Tu, Th	16	11.15 M, W					
	10	10.15 M, W	16 lab	2.00-5.00 Th					
	21 and 22	8.50 Tu, Th, S	17	11.15 Tu, Th					
	23, 24	2.00 M, W, 4.00 Tu	21	2.00 Tu					
	25-26	2.00 F, 2.00-4.00 Tu	21 lab	3.00-5.00 Tu, 2.00-5.00 Th					
	27-28	12.15 M, W, F	24	2.00 Tu					
	27-28 lab	3.00-5.00 W	24 lab	3.00-5.00 Tu, 2.00-5.00 Th					
	English	1-2a	8.50 M, W, F	Goucher	Political Science	1, 2a		8.50 Tu, Th, S	Vanaheim
		1-2aa	8.50 Tu, Th, S			1, 2b		10.15 Tu, Th, 9.50 S	
1-2aaa		8.50 Tu, Th, S	1, 2bb			10.15 Tu, Th, 9.50 S			
1-2b		10.15 Tu, Th, 9.50 S	1, 2c			11.15 M, W, F			
1-2bb		10.15 Tu, Th, 9.50 S	1, 2d			12.15 M, W, F			
1-2bbb		10.15 Tu, Th, 9.50 S	1, 2dd			12.15 M, W, F			
1-2c		11.15 M, W, F	1, 2e			2.00 M, W, F			
1-2cc		11.15 M, W, F	3, 4			11.15 M, W, F			
1-2ccc		11.15 Tu, Th, 10.50 S	5, 6			12.15 Tu, Th			
1-2d		12.15 M, W, F	7, 8			11.15 Tu, Th, 10.50 S			
1-2dd		12.15 M, W, F	9-10			2.00 Tu, Th			
1-2e		2.00 M, W, F	11, 14			10.15 M, W			
1-2ee		2.00 M, W, F	Psychology			1b and 1R	10.15 Tu, Th	Vanaheim	
1-2x		10.15 M, 12.15 Tu, Th				1d	12.15 M, W		
1-2xx		10.15 M, 12.15 Tu, Th				1 conf.a	8.50 Th		
3, 4d		12.15 Tu, Th				1 conf.aa	8.50 F		
3, 4e		2.00 Tu, Th				1 conf.aaa	8.50 S		
5, 6		2.00 W, F				1 conf.b	9.50 S		
7, 8		2.00 Tu, Th				1 conf.bb	9.50 S		
10		8.50 M, W, F				1 conf.c	11.15 Th		
11, 12		10.15 M, W				1 conf.cc	11.15 F		
13, 14		10.15 M, W				1 conf.ccc	10.50 S		
41, 42		3.00 Tu, Th				1 conf.d	12.15 Th		
51, 52	8.50 M, W, F	1 conf.dd		12.15 F					
53-54a	8.50 M, W, F	1 conf.ddd		12.15 F					
53-54aa	8.50 M, W, F	1 conf.e		2.00 F					
53-54aaa	8.50 Tu, Th, S	2		11.15 Tu, Th, 10.50 S					
53-54ax	8.50 Tu, Th, S	3		2.00 M					
53-54b	10.15 Tu, Th, 9.50 S	3 lab	3.00-5.00 M, 2.00-5.00 W						
53-54bb	10.15 Tu, Th, 9.50 S	4	2.00 Tu						
53-54c	11.15 M, W, F	4 lab	3.00-5.00 Tu, 2.00-5.00 Th						
53-54cc	11.15 Tu, Th, 10.50 S	5	2.00 Tu						
53-54d	12.15 M, W, F	5 lab	3.00-5.00 Tu, 2.00-5.00 Th						
53-54dd	12.15 M, W, F	6	2.00 M						
53-54e	2.00 M, W, F	6 lab	3.00-5.00 M, 2.00-5.00 W						
53-54ee	2.00 M, W, F	11 or 12	2.00-5.00 M, W						
53-54f	3.00 M, W, F	14	8.50 M, W, F						
53-54x	10.15 M, 12.15 Tu, Th	15 or 16	2.00 M						
59a	8.50 M, W, F	15 or 16 lab	3.00-5.00 M, 2.00-5.00 W						
59b, 60	10.15 Tu, Th, 9.50 S	21c	11.15 Tu, Th, 10.50 S						
59c	11.15 M, W, F	21e	2.00 M, W, F						
65-66	12.15 Tu, Th	French	A1-2d	12.15 M, W, F	Goucher				
68	12.15 M, W, F		A1-2f	3.00 M, W, F					
69 and 70	8.50 M, W, F		B1-2a	8.50 Tu, Th, S					
71, 72c	11.15 Tu, Th, 10.50 S		B1-2b	10.15 Tu, Th, 9.50 S					
71, 72e	2.00 M, W, F		B1-2c	11.15 Tu, Th, 10.50 S					
72cc	11.15 M, W, F		B1-2cc	11.15 Tu, Th, 10.50 S					
80	12.15 M, W, F		B1-2e	2.00 M, W, F					
81-82	2.00 M, W, F		B1-2f	3.00 M, W, F					
83, 84	10.15 Tu, Th, 9.50 S		B1R	To be assigned					
87	12.15 M, W, F		B2aa	8.50 Tu, Th, S					
91-92	12.15 M, W, F		B2R a	8.50 Tu, Th, S					
95-96	11.15 Tu, Th, 10.50 S		B2R b	10.15 Tu, Th, 9.50 S					
101-102	12.15 Tu, Th		B2R c	11.15 M, W, F					
103	12.15 M, W, F		B2R cc	11.15 Tu, Th, 10.50 S					
106	2.00 Tu, Th		3-4c	11.15 Tu, Th					
121, 122	11.15 M, W, F		3-4d	12.15 Tu, Th					
Geology	1, 2	11.15 Tu, Th, 10.50 S	3-4e	2.00 Tu, Th					
	3	10.15 M, W	3-4f	3.00 Tu, Th					
	3, lab	2.00-5.00 Th	5-6	12.15 Tu, Th					
	10	2.00-5.00 Th	9-10a	8.50 M, W, F					
German	A1-2e	2.00 M, W, F	9-10aa	8.50 Tu, Th, S	Goucher				
	A1-2x	11.15 M, 12.15 Tu, Th	9-10e	2.00 M, W, F					
	B1-2	11.15 Tu, Th, 10.50 S	9-10f	3.00 M, W, F					
	3-4	10.15 M, W	9R c	11.15 M, W, F					
	11-12	12.15 M, W, F	9R cc	11.15 Tu, Th, 10.50 S					
	17-18	3.00 M, 11.15 Tu, Th	13-14	8.50 M, W, F					
			15-16	2.00 M, W, F					
			17-18	11.15 M, W, F					
Greek	A1, 2	3.00 M, W, F	21-22	10.15 M, W, 2.00 Th	Goucher				
	B1, 2	2.00 M, W, F	A1-2a	8.50 M, W, F					
	3-4		A1-2aa	8.50 Tu, Th, S					
	9, 10		B1-2	10.15 Tu, Th, 9.50 S					
History	11-12a	8.50 M, W, F	9-10	To be assigned	Goucher				
	11-12aa	8.50 Tu, Th, S	A1-2a	8.50 M, W, F		Goucher			
	11-12b	10.15 Tu, Th, 9.50 S	A1-2aa	8.50 Tu, Th, S					
	11-12c	11.15 M, W, F	A1-2b	10.15 Tu, Th, 9.50 S					
	11-12cc	11.15 Tu, Th, 10.50 S	A1-2c	11.15 Tu, Th, 10.50 S					
	11-12ccc	11.15 Tu, Th, 10.50 S	A1-2d	12.15 M, W, F					
Italian	11-12d	12.15 M, W, F	A1-2f	3.00 M, W, F	Goucher				
	11-12dd	12.15 M, W, F	B1-2a	8.50 M, W, F					
	11-12e	2.00 M, W, F	B1-2aa	8.50 Tu, Th, S					
	11-12f	3.00 M, W, F	B1-2c	11.15 Tu, Th, 10.50 S					
	11-12x	10.15 M, 12.15 Tu, Th	B1-2e	2.00 M, W, F					
	13-14	3.00 M, W, F	B1-2f	3.00 M, W, F					
	21, 22	11.15 Tu, Th, 10.50 S	3-4	10.15 M, W, F					
	27-28c	11.15 M, W, F	9-10	3.00 M, W, F					

BULLETIN

OF

GOUCHER COLLEGE

APRIL, 1925

ANNOUNCEMENT OF COURSES
FOR 1925-1926

BALTIMORE
MARYLAND

NOTE

This number of the bulletin is an announcement of the courses as they are to be given in the year 1925-26. The complete catalogue for 1925-26 will be issued as the bulletin of next August.

April 1, 1925.

DEFINITION OF COURSES

All courses are given as semester courses, with odd numbers denoting those of the first semester, and even numbers those of the second semester. Courses numbered thus, 1-2, are continuous courses; the first semester course is prerequisite to the second; except in elementary foreign languages, however, credit is given for the work of the first semester if it is satisfactorily completed. 1 and 2, 1R, 2R, indicate a course which is given in both semesters, the second semester being a repetition of the first. 1 or 2, indicates a course which is given in only one semester, either the first or second.

The name of the chairman of the department appears first unless otherwise indicated.

ART

PROFESSOR FROELICHER

1-2 Art Criticism. Aesthetics. Lectures and discussions. Aesthetic theories; methods of criticism; field work in criticism. Open to Juniors and Seniors. Two hours, each semester. *Semester credit, two units.*

3-4. Outline of the History of Art. Lectures illustrated with the lantern and with photographic reproductions; reports on assigned topics. Not open to Freshmen. Two hours, each semester. *Semester credit, two units.*

7. History of the Painting of the Renaissance. Lectures illustrated with the lantern and with photographic reproductions; reports on assigned topics. Open to Juniors and Seniors. Prerequisite, Courses 3-4. Two hours, first semester. *Credit, two units.*

8. History of Modern Painting. Lectures illustrated with the lantern and with photographic reproductions; reports on assigned topics. Open to Juniors and Seniors. Prerequisite, Courses 3-4. Two hours, second semester. *Credit, two units.*

BIBLICAL LITERATURE AND COMPARATIVE RELIGION

PROFESSOR DOUGHERTY

INSTRUCTOR BALL

LECTURER KIRK

The immediate aim of this department is to furnish acquaintance with the origin, nature, and purpose of the writings of the Old and New Testaments and to set forth clearly the facts which are fundamental to a genuine religious faith and experience. The required courses are of primary importance because they give an accurate understanding of the Bible as sacred literature.

A comparative study of the great non-Christian cults now extant in the world furnishes a wider view of man's religious tendencies. A constructive solution of the problems of religious belief is presented and the development of the early church fully outlined. In addition, the Scriptural record is made more real by the study of the monuments and inscriptions found in Bible lands.

Close correlation exists between these courses and the work in the departments of history, economics and sociology, and philosophy. Students wishing to specialize in the original languages of the Bible can supplement Elementary Hebrew with New Testament Greek (Greek A2).

A course in Elementary Hebrew, 21-22, will be given when there is a demand for it.

1. The Old Testament. A careful survey of each book with an appreciation of its historical, literary, and religious features. Lectures in addition to assigned readings both in and outside the Bible. Required of all students after the sophomore year. Open to Sophomores by special permission. Three hours, first semester. *Credit, three units.* DR. DOUGHERTY and MR. BALL.

2. The New Testament. Continuation of Course 1, which is prerequisite. The books of the New Testament will be studied in their historical order, and a general analysis of their contents and teaching given. Requirement same as in Course 1. Three hours, second semester. *Credit, three units.* DR. DOUGHERTY and MR. BALL.

5. The History of Religions. Primitive religious beliefs and practices. The religions representing the civilizations of Egypt, Babylonia, Assyria, Greece, and Rome. Judaism, Zoroastrianism, Mohammedanism. Open to Juniors and Seniors, or to Sophomores by special permission. Three hours, first semester. *Credit, three units.* DR. DOUGHERTY.

6. The History of Religions. Oriental religions in relation to the history and development of India, China, and Japan. The religion of the Vedas, Brahmanism, Jainism, Buddhism, Hinduism, Confucianism, Taoism, Shintoism. A concluding evaluation of Christianity. Open to Juniors and Seniors, or to Sophomores by special permission. Three hours, second semester. *Credit, three units.* DR. DOUGHERTY.

7. Fundamentals of the Christian Religion. A study of its underlying principles. The existence of God, as a rational belief and morally helpful. The relation of God and man as manifested in the person of Jesus. The duty and destiny of man as a correlate of the foregoing. Some problems of the Christian life, *e.g.*, prayer, miracles, problem of evil, end of the world, etc. Lectures, assigned readings, papers, and discussions. Prerequisite, Philosophy 1, or by special permission may parallel Philosophy 1. Two hours, first semester. *Credit, two units.* MR. BALL.

8. Beginnings of Christianity. A brief survey of the Christian movement down to the fourth century, A. D. The world of Jesus' day. The work of Jesus and his immediate disciples. Early Christian ideas as revealed in the New Testament writings. The conflict of ideas in the first half of the second century. Early church organization as seen in the ministry and sacraments. Influence of the mystery religions, etc. Prerequisite, Courses 1 and 2, or by special permission may parallel Course 2. Two hours, second semester. *Credit, two units.* MR. BALL.

10. Biblical Archaeology. A survey of the archaeological discoveries which have thrown helpful light upon Bible times and events. The main historical movements will be outlined. Not open to Freshmen. Three hours, second semester. *Credit, three units.* DR. DOUGHERTY.

15. Historical Christianity. Lectures and preceptorial conferences on the historical facts underlying the origin of Christianity, with particular reference to the philosophical and religious interests of the ancient world which prepared the way; the historical conditions which gave rise to the New Testament literature, and the inevitable dynamic of a literature so pro-

duced not merely in making the spiritual conquest of the world which followed, but also in spiritually meeting the vital conditions which confront the present day. Open to Juniors and Seniors. Two hours, first semester. *Credit, two units.* DR. KIRK.

BIOLOGY

PROFESSOR LONGLEY

ASSOCIATE PROFESSOR CLELAND

ASSISTANT PROFESSOR LANGDON

ASSISTANTS: SANDERS

BEALL

The minimum requirement in biology for students majoring in the department is 15 units of elective work, which shall include Biology 20.

There may be offered in completion of the major requirement, additional courses in biology, or laboratory courses in physics or chemistry beyond the elementary requirements in those departments, or such courses as bacteriology, experimental physiology, experimental psychology, sociology, and calculus. A limited number of hours will also be accepted from the following group of courses, Art 3-4, Biblical Literature 5, 6, Philosophy 3, 4, and Economics and Sociology 41 or 42.

Prospective major students in biology are advised to offer French and German, when possible, rather than other modern languages, in fulfillment of the general requirements for the degree.

1 and 2. General Biology. The fundamental facts and principles relating to the structure and activities of living organisms, both plants and animals; the relations of organisms with one another and with their environment; the examination of a brief series of type-forms. Introductory to all other courses in the department and required of all students not later than the sophomore year. One hour lecture, one hour conference and quiz, four hours laboratory work, a semester. *Credit, three units.* DR. LONGLEY, DR. CLELAND, DR. LANGDON, and Assistants.

(This course is repeated in the second semester.)

3-4. General Botany of Flowering Plants. The structure, physiology, and economic uses of the vegetative organs of seed plants. Evolution of reproduction. Structure and physiology of the flower, methods of pollination, seed and fruit development and dissemination. Identification of flowering plants. Prerequisite, Course 1. One hour lecture, five hours laboratory or field work, each semester. *Semester credit, three units.* DR. CLELAND.

5-6. Morphology and Taxonomy of Plants. A systematic study of the structure and life histories of the various groups of plants, with the exception of the Angiosperms. Emphasis will be placed upon evolutionary tendencies among plants. Field work, familiarizing the students with the local distribution of the forms studied. Prerequisite, Course 4 or 7 or 8. One hour lecture, five hours laboratory or field work, each semester. *Semester credit, three units.* DR. CLELAND.

7. Invertebrate Zoology. The structure, life-histories, and relationships of the chief invertebrate groups. Prerequisite, Course 1. Two hours lecture, seven and one half hours laboratory or field work, first semester. *Credit, five units.* DR. LONGLEY and Assistant.

8. Vertebrate Zoology. The comparative anatomy and relationships of the chordate classes with reference to their descent and to the history of man. Prerequisite, Course 1. One hour lecture, five hours laboratory work, second semester. *Credit, three units.* DR. LONGLEY and Assistant.

9. General Embryology. The fundamental facts and processes of individual development, the cell and cell-division, the germ cells, maturation, fertilization, cleavage, and the physical basis of heredity. When appropriate, genetic, as well as microscopic, methods of analysis will be applied. Prerequisite, Course 4 or 7 or 8. One hour lecture, five hours laboratory work, first semester. *Credit, three units.* DR. LONGLEY.

10. Vertebrate Embryology. The development of the frog and chick, with briefer references to Amphioxus, the teleost, and the mammal. Brief reference to the comparative anatomy of the vertebrates. Prerequisite, Courses 8, 9. One hour lecture, five hours laboratory work, second semester. *Credit, three units.* DR. LONGLEY

13-14. Histology and Microtechnique. Primarily a course in the theory and practice of laboratory methods in preserving, sectioning, staining, and mounting material for microscopic study. Sufficient attention is paid to the structure of experimental material to introduce the student to the more important facts of histology. Prerequisite, Courses 3-4 or 7, 8. One hour lecture, two and one half hours laboratory work, each semester. *Semester credit, two units.* DR. LANGDON.

15-16. Seminar. Conferences, individual reports, and readings upon topics of general biological character or bearings. The subjects considered vary from year to year. References in French or German may occasionally be assigned. Open to Seniors, and exceptionally to Juniors, taking advanced courses in this department. One hour, each semester. *Semester credit, one unit.* DR. LONGLEY.

20. Theoretical Biology. Lecture and text-book course dealing with the general principles of biology and organic evolution; includes such topics as the origin of living substance, growth, variation, selection, development, heredity, history of man, etc. Prerequisite, Course 1. Three hours, second semester. *Credit, three units.* DR. LONGLEY.

BOTANY

(See Biology)

CHEMISTRY

PROFESSOR LLOYD

ASSOCIATE PROFESSOR KELLEY

ASSISTANT PROFESSOR YOUNG

INSTRUCTOR NEUHAUSEN

ASSISTANTS: BROWN

WHITTAKER

DAMEREL

Courses 1-2 are ordinarily prerequisite to all further courses in chemistry. Any student, however, who has received entrance credit in chemistry and who wishes to

continue the study of chemistry in college will be admitted directly into Course 5, provided she can present a satisfactory laboratory notebook.

Course 3, which completes the introductory work in general inorganic chemistry, and Course 40, which presents the methods and principles of organic chemistry, are recommended to students who do not wish to major in chemistry.

Courses 3 or 5, 20, 21, 41-42, 60, 62 constitute the basis of major work in the department of chemistry. The major requirement in chemistry also includes one year of college mathematics (Courses 3 and 8, or 9-10, are recommended) and one year of college physics (Courses 1-2 or 3-4). Students who expect to choose chemistry as their major subject should arrange to take these courses as early as possible. All chemistry major students are expected to elect courses in non-scientific subjects amounting to at least fifteen units in addition to the non-scientific courses required for graduation.

Students who plan to teach chemistry or general science in secondary schools should elect courses in education, botany, and teaching of chemistry.

Students who are interested in the application of chemistry to physiology should elect physiological chemistry, nutritional physiology (Physiology 8), and bacteriology.

Students who intend to make chemistry their profession are urged to do graduate work in the subject. As preparation for such study, courses in calculus, advanced physics, German, and French are recommended.

Students who wish to become laboratory technicians should elect Course 22.

Students expecting to study medicine should consult the chairman of the department of physiology and hygiene as early as possible in their course as to the possibility of arranging a pre-medical major.

A course in advanced physical chemistry, Course 65, will be given for Seniors when a sufficient number request it.

1-2. Inorganic Chemistry. An introductory course, comprising a systematic treatment of the fundamental principles of the subject and of the properties of the more important non-metallic elements and their compounds. Required of all students who have completed a satisfactory preparatory course in physics, or, as alternate courses with Physics 1-2, of students who have not completed a satisfactory preparatory course in either physics or chemistry. Recommended (as alternate with Course 5) to students who have received entrance credit in chemistry and who desire to continue the study of chemistry in college. In order that these students may make greater advancement than the beginners, they are assigned special reading and laboratory work. Three hours lecture, four hours laboratory work, each semester. *Semester credit, three units.* DR. LLOYD assisted by other members of the department.

3. Inorganic Chemistry. A continuation of the study of the reactions and principles of inorganic chemistry. The following theoretical topics are taken up in an introductory fashion: Ionic theory, colligative properties of solutions, colloids, reaction velocity, equilibrium, electrochemistry, thermochemistry, metallurgy, radioactivity, atomic structure, periodic law. The course is intended for students who are not majoring in any branch of science as well as for those intending to make chemistry their major subject. Prerequisite, Courses 1-2. Two hours lecture, three hours laboratory work, first semester. *Credit, three units.* DR. LLOYD.

5. Inorganic Chemistry. This course follows the same general plan as Courses 1-2 and 3, and is arranged for students who have received entrance credit in chemistry and who plan to continue the study of chemistry in college. In order to be admitted to the course, the student must present a satisfactory laboratory notebook. Three hours lecture, four hours laboratory work, first semester. *Credit, four units.* MISS NEUHAUSEN.

7-8. Inorganic Preparations. A laboratory course designed to increase the student's familiarity with chemical substances and chemical operations. The course may be begun in either semester. Three hours laboratory work, each semester. *Semester credit, one unit.* DR. LLOYD.

20. Qualitative Analysis. The lectures of this course deal with the laws of solution and of equilibrium, and with the applications of these laws to analytical chemistry. The laboratory work is the systematic study of the reactions of the important metals, and the analysis of unknown substances. This course is required of all students who have chosen chemistry as their major subject. Prerequisite, Course 3 or 5. Three hours lecture and conference, six hours laboratory work, second semester. *Credit, four units.* MISS YOUNG.

21. Quantitative Analysis. A preliminary course, dealing with the theory of quantitative analysis, and including in the laboratory work practice in typical gravimetric and volumetric analyses. Required of all students who have chosen chemistry as their major subject. Prerequisite, Course 20. Two hours lecture, seven hours laboratory work, first semester. *Credit, four units.* MISS YOUNG.

22 and 23. Quantitative Analysis. A continuation of Course 21. One hour lecture, six hours laboratory work, a semester. *Credit, three units.* MISS YOUNG.

(This course is repeated in the first semester.)

26. Qualitative Analysis. A continuation of Course 20. The analysis of more difficult substances and the identification of acid radicals are included in the laboratory work. Prerequisite, Course 21. One hour lecture, seven hours laboratory work, second semester. *Credit, three units.* MISS YOUNG.

40. Organic Chemistry. A brief course designed primarily for students majoring in other science departments who are not able to spend a year in the study of organic chemistry. This course is a satisfactory prerequisite to physiological chemistry. Three hours lecture, three hours laboratory work, second semester. *Credit, three units.* DR. KELLEY.

41-42. Organic Chemistry. A study of the compounds of carbon, with emphasis on the fundamental principles of their reactions. The laboratory work includes methods of synthesis and of elementary qualitative organic analysis. Required of all students who have chosen chemistry as their major subject, preferably in the third year. Prerequisite, Course 20. Three hours lecture, three hours laboratory work, each semester. *Semester credit, three units.* DR. KELLEY.

43 and 44. Organic Chemistry. A course in complex organic synthesis designed to follow or accompany Course 42, which is prerequisite or a required parallel. Three hours laboratory work, a semester. *Credit, one unit.* DR. KELLEY.

(This course is repeated in the second semester.)

45. Advanced Organic Chemistry. The lectures of this course deal with the theories of organic chemistry. The laboratory work includes complex syntheses and some work in the identification of organic compounds. Pre-

requisite, Courses 41-42. Two hours lecture, six hours laboratory work, first semester. *Credit, four units.* DR. KELLEY.

46. **Organic Analysis.** A laboratory course designed to give the student training in the methods of qualitative and quantitative organic analysis. Prerequisite, Courses 21, 41-42. Six hours laboratory work, second semester. *Credit, two units.* DR. KELLEY.

60. **Elementary Physical Chemistry.** A study of chemical principles, including an elementary treatment of the structure of matter. Required of all students who have chosen chemistry as their major subject, and open to students majoring in other science departments. Prerequisite, two semesters of college chemistry. Three hours lecture, second semester. *Credit, three units.* MISS NEUHAUSEN.

62. **Physical Chemistry.** A series of selected exercises in physico-chemical measurements. Required parallel with Course 60 for all students majoring in chemistry. Prerequisite, Course 21. Three hours laboratory work, second semester. *Credit, one unit.* MISS NEUHAUSEN.

71-72. **Physiological Chemistry.** The lectures and laboratory work of this course deal with a study of (1) the chemistry of proteins, carbohydrates, and fats; (2) digestion and absorption; (3) the separation and analysis of some of the constituents of milk, tissues, bile, blood, and urine. Prerequisite, Courses 3 or 5 and 41-42 or 40. Two hours lecture, four hours laboratory work, each semester. *Semester credit, three units.* MISS ENGLISH.*

81. **The Teaching of Chemistry.** One hour lecture, first semester. *Credit, one unit.* DR. LLOYD.

92. **History of Chemistry.** A text-book and discussion course, with systematic readings and written reports in history, biography, and original literature in the field of chemistry. Prerequisite, Courses 21, 41-42. Two hours conference, a minimum of six hours reading and study per week, second semester. *Credit, three units.* DR. LLOYD.

COMPARATIVE RELIGION

(See Biblical Literature and Comparative Religion)

ECONOMICS AND SOCIOLOGY

PROFESSORS: CARROLL

PETERS

THOMAS

ASSOCIATE PROFESSOR McDUGLE

INSTRUCTORS: FRIEDLAND

PANCOAST

The aim of the department is (1) to develop in college students an understanding and appreciation of some of the outstanding economic and social problems; (2) to prepare selected students, in so far as undergraduate work can do so, for the profession of business or of social work; (3) to promote interest in and to prepare for graduate work in economics and sociology.

* Assistant Professor in the department of physiology and hygiene.

ANNOUNCEMENT OF COURSES

Students majoring in the department are required to take Courses 1-2, 21 and 41. Students whose chief interest is economics should add to selected courses in this department material from the history, political science, philosophy, and mathematics departments; those focusing on social work should add to the courses in this department subjects offered by the departments of biology, physiology and hygiene, mathematics, education, history, psychology, and political science. It is suggested that freshmen planning to enter the department elect Mathematics 3 and 8. Special attention is called to History 95-96 and Mathematics 42, which count toward the major requirements of this department.

In fulfillment of the major requirements 20 units, including those mentioned above, are necessary in the major department and 10 in allied subjects.

Practical experience enriches understanding of problems discussed in the class room and also offers opportunity for vocational try-out. The student is therefore urged, whenever possible, to find employment, paid or unpaid, for some part of the summers following the sophomore and junior years. The Appointments Bureau assists the students in securing positions. It is believed that summer work can be utilized to give the training formerly afforded by field-work, leaving the college year free for academic subjects.

1-2. Elementary Economics. This course is designed to give the student an understanding of modern industrial society with a working knowledge of the fundamental principles of economic theory, particularly in relation to problems of the production, distribution, and consumption of goods. Not open to Freshmen. Three hours, each semester. *Semester credit, three units.* Members of the department.

3. Money and Banking. A study of the development of the present monetary systems and of the principles and practical operations of financial institutions. Prerequisite, Courses 1-2. Three hours, first semester. *Credit, three units.*

4. Public Finance. A course dealing with public expenditures, debt, revenue, and budgets, with special emphasis on modern forms of taxation. Prerequisite, Courses 1-2. Three hours, second semester. *Credit, three units.*

5. Industrial Organization. A treatment of manufacturing and commercial organization from the standpoint of industrial efficiency, including business administration, finance, and labor problems from the standpoint of management. Prerequisite, Courses 1-2. Three hours, first semester. *Credit, three units.* MISS PANCOAST.

7. Labor Conditions and Problems. This course deals with varying economic theories and with economic and legal aspects of society that condition labor problems. It includes a brief analysis of labor and employing groups. Prerequisite, Courses 1-2. Three hours, first semester. *Credit, three units.* DR. CARROLL.

9. Economic Policies. A study of the strength and weakness of comprehensive plans for economic improvement, especially the single tax, socialism, national guilds, syndicalism, voluntary cooperation, and liberalism. Prerequisite, Courses 1-2 and junior or senior standing. Three hours, first semester. *Credit, three units.* DR. THOMAS.

10. The Family. Deals chiefly with the economic problems of the modern family, such as the specialization of household industries, domestic service, domestic finance, the increasing economic independence of women, and some

phases of marriage and divorce. Prerequisite, Courses 1-2, 41 and 42 and senior standing. Three hours, second semester. *Credit, three units.* DR. THOMAS.

20. **Development of Economic Ideas.** The changing currents of thought which have represented men's attitudes toward the prevailing economic organization. Attention is also given to the industrial conditions and political and social philosophy as determining factors of economic theories. Prerequisite, Courses 1-2 and senior standing. Three hours, second semester. *Credit, three units.* MISS PANCOAST.

21 and 22. **Elementary Statistics.** This course is designed to give the student an understanding of the purpose and limitations of the statistical method, and experience in the more common measures of central tendency and in simple tabulation and graphics. Problems in the collection and interpretation of statistical material will be discussed. Prerequisite, sophomore standing. Three hours, a semester. *Credit, three units.*

(This course is repeated in the second semester.)

23. **Methods in Social Work.** This course deals with the evolution of philanthropy in relation to changing social and economic conditions; and with present-day principles, methods, and resources. Visits to social agencies in Baltimore will be made. Prerequisite, junior standing. Three hours, first semester. *Credit, three units.* DR. CARROLL.

24. **Society and the Offender.** A study of historic and present-day methods of treatment of the juvenile and adult offender. Prerequisite, Courses 1-2. Three hours, second semester. *Credit, three units.* DR. McDOUGLE.

26. **Social Legislation.** A study of state and federal laws pertaining to woman and child welfare, labor, social insurance, dependence, and delinquency. Prerequisite, Courses 1-2. Three hours, second semester. *Credit, three units.* MISS PANCOAST.

28. **Rural Sociology.** This course presents the characteristics common to American rural communities with the problems arising from the drift to the cities and the trend toward rural community organization. Prerequisite, Courses 41, 43, and junior standing. Three hours, second semester. *Credit, three units.* DR. PETERS.

41 and 42. **Social Origins.** A study of man in relation to his environment; the origin of the early systems of social control; and the processes involved in the transition from primary to secondary group relations. Prerequisite, sophomore standing. Biology 1 recommended as prerequisite. Three hours, a semester. *Credit, three units.* DR. McDOUGLE.

(This course is repeated in the second semester.)

43 and 44. **Social Psychology.** The psychology of the self in terms of native traits and social environment; the uniformity in habits of thought of natural groups; and the psychology of mass movements. Prerequisite, Course 41 and Psychology 1. Three hours a semester. *Credit, three units.* DR. McDOUGLE and DR. PETERS.

(This course is repeated in the second semester.)

45 and 46. Social Institutions. A critical study of fundamental institutional life. Prerequisite, Biology 1 and Psychology 1. Three hours, a semester. *Credit, three units.* DR. PETERS.

(This course is repeated in the second semester.)

48. Sociology. The social process as interpreted in the literature of social science. Prerequisite, Course 41 and senior standing. Three hours, second semester. *Credit, three units.* DR. McDUGLE.

50. Immigration. A study of immigrant peoples, heritages and attitudes, their life in American communities, and the influence of their presence on American economic, political, and social institutions. Prerequisite, Course 41. Three hours, second semester. *Credit, three units.* DR. CARROLL.

61 and 62. Social Investigation. Opportunity is here given to selected students for supervised but independent investigation of various aspects of public philanthropy in Maryland. Primary sources are used. Required written work. One hour conference weekly and two or five hours of investigation. Prerequisite or required parallel, Course 23. *Semester credit, one or two units,* depending on the amount of work done. DR. CARROLL.

(This course is repeated in the second semester.)

Field Trips. Field trips will be conducted by the department in connection with courses 1-2, 5, 23, and 24. Attempts will be made to arrange these for such times that all students taking the courses will be able to take some of the trips. Where her academic schedule makes it impossible for the student to attend, she will be excused from the field trips. MISS PANCOAST.

EDUCATION

PROFESSOR ———*

ASSOCIATE PROFESSOR McCARTY †

ASSISTANT PROFESSOR McHALE ‡

INSTRUCTORS: McLESTER

MARINE

ASSISTANTS: ILGENFRITZ

DURLING

The courses in the department of education are planned to meet the needs of four classes of students. Those who desire an understanding of the significance of education and a knowledge of educational conditions in the United States with a view to fulfilling their obligations as citizens in improving the school situation in the community in which they live are recommended to take Course 1. Courses 7, 8 and Course 3 will also be valuable for this group. For those who wish a general background of educational knowledge and training either for social work or for the education of children in the home Courses 21 and 23, 24 or 25-26 are suggested.

Those students who are looking forward to teaching either in the secondary school or in the kindergarten and primary grades must make a detailed study of education, embracing the principles of education, educational psychology, methods of teaching, school administration, and the history of education. If preparing to teach in the public

* To be appointed.

† Acting Chairman.

‡ On leave of absence 1925-26.

schools such students will be able to meet the requirements of the boards of education of most of the states for college graduate certificates. Since the requirements of the various states are not uniform, it is recommended that students consult the education department before planning their programs.

Students preparing to teach in the secondary school are advised to take the following courses in the prescribed order: 1, 2, 3 or 7 and 8, 5-6. Course 1 or Courses 7, 8 are suggested to be taken in the sophomore year. Courses 2, 3 or 7 and 8 in the junior year, Courses 5-6 in the senior year.

Students preparing for kindergarten or primary teaching are advised to major in education, and take the following courses in approximately the prescribed order: 7, 8 or 1, 23, 24, 25-26 21 or 2, 3, and 27-28. Education 10, Physiology and Hygiene 3, and Economics and Sociology 23 are also recommended.

The third group of students for whom the department is making provision are future research workers in the field of educational science. Such students must have shown superior ability in the field of psychology. In addition to the general courses in education, they are advised to take a more extensive psychological training. The courses provided for this purpose in the department of education are 10 and 21.

Students preparing for positions as recreation leaders are advised to take the following courses: Education 3, 7, 8 or 1, 21, 25-26, Physiology and Hygiene 3, 16. Courses in Economics and Sociology are also recommended.

1 and 1R. Introduction to Education. A general survey of the American public school system, emphasizing the organization and administration of schools. The course is valuable for those who are not planning to teach, but who desire a knowledge of educational institutions in the United States. Not open to Freshmen. Two hours, a semester. *Credit, two units.*

(This course is repeated in the second semester.)

2. Educational Psychology. A study of the applications of psychology to educational practice, with special bearing upon the secondary school. Emphasis is laid upon the psychology of learning. Prerequisite, Psychology 1. Three hours, second semester. *Credit, three units.*

3. Principles of Education. A study of the aims and values in education and general principles of method, content, and administration of education in a democracy. Open to Juniors and Seniors. Three hours, first semester. *Credit, three units.*

5-6. Secondary Education. A detailed study of the public secondary school, or high school. The course will take up the specific aims, methods, courses of study, and some of the administrative problems of the high school. Time will be devoted to practical work including the writing of lesson plans and observation. Prerequisite, Course 2 and either 3 or 7, 8. Students electing this course are advised to have three hours a week for observation, between nine o'clock in the morning and three in the afternoon. Two hours lecture, two and a half hours observation and conference (arranged to suit the student's schedule), each semester. *Semester credit, three units.*

7. History of Education. A survey of educational theories and practices from earliest historic times to the present, with emphasis upon their interpretative value for present-day educational problems. Not open to Freshmen. Two hours, first semester. *Credit, two units.* DR. McCARTY.

8. History of Education. Continuation of Course 7, but may be elected independently. Not open to Freshmen. Two hours, second semester. *Credit, two units.* DR. McCARTY.

10. Mental Tests. A study of the standard methods of measuring mental abilities by tests and scales. An introductory course for those who desire to do technical work in this field of psychology. It includes the systematic treatment of the main types of instruments at present in use for measuring the results of instruction in schools. Prerequisite, or required parallel, Course 2 or 21, Psychology 1. Students electing this course must have one free morning each week for the experimental work. An additional lecture hour can be arranged for those who wish more advanced training in statistical methods applied to education. Two hours lecture, two and a half hours experimental work, second semester. *Credit, three units.*

21 and 22. Child Psychology. A study of the original nature and developmental changes in human life during the pre-adolescent period, with special emphasis upon the pre-school and primary school years. The course is valuable not only for prospective teachers, but for those who are interested in pure psychology from the genetic standpoint, in social work or the home training of children. Prerequisite, or required parallel, Psychology 1. Three hours, a semester. *Credit, three units.* DR. McCARTY.

(This course is repeated in the second semester.)

23. Introduction to Early Elementary Education. A special survey of the historical development and present status of education in the kindergarten-primary period, and of the physical activities appropriate to these years. Not open to Freshmen. Two hours lecture, one hour practical work, first semester. *Credit, two units.* DR. McCARTY.

24. Child Literature. A study of the literature of early childhood, its origins and development, criteria of selection, and methods of presentation. Not open to Freshmen. Two hours lecture, one hour practical work without credit required of all students electing Early Elementary Education as a major, second semester. The practical work is optional with other students enrolled in this course. *Credit, two units.* MISS McLESTER.

25-26. Expressive Materials of Early Elementary Education. A study of the modes of expression, music, industrial and fine arts, adapted to the kindergarten-primary period. Open to Juniors and Seniors. One hour lecture, three hours practical work, each semester. *Semester credit, two units.* MISS McLESTER, MISS DURLING, MISS MASSEY.*

27-28. Curriculum and Formal Subjects of Early Elementary Education. A detailed study of the curriculum and administration of the Kindergarten and lower primary grades, including subject matter, organization, presentation of "tool subjects" (language and mathematics). Practical work includes lesson plans, observation, practice teaching, and advanced work in manual acts. Prerequisites, or required parallels, Courses 3, 7, 8 or 1, 21, 23, 24, 25-26. Students electing this course must have at least four free afternoons each week during one semester for practice teaching. Three hours lecture, three hours practical work, each semester; six weeks consecutive practice teaching one semester. *Semester credit, five units.* DR. McCARTY, MISS McLESTER, MISS DURLING.

* Instructor in the department of physical education.

ENGLISH

PROFESSORS: HOPKINS

KUHL

ASSOCIATE PROFESSORS: BAKER

BEATTY

MILLER

NITCHIE

WINSLOW

ASSISTANT PROFESSORS: ADAMS

BALDWIN

NICOLSON

WHITNEY

INSTRUCTORS: BRINKLEY

MCGINNIS

The purpose of the work in the department of English is to acquaint students with the principles and practice of composition, to familiarize them with important currents of literary history, and to develop an appreciation of literature.

Courses required of all students are: 1-2, 53-54.

The requirements for students majoring in English are as follows: A, 59 (Chaucer) or 51 (Old English); B, 71 or 72 (Shakespeare). It is advised that these requirements be distributed over the junior and senior years.

In addition to the requirements, students majoring in English are expected to take at least one semester course in composition. But without the approval of the chairman and of the instructor concerned no student may take more than two semester courses in composition in any one year.

The major requirement is a maximum of 30 units, 6 of which may be selected from related departments such as Art, Philosophy, and Foreign Languages. Courses in the latter group of departments are restricted to advanced courses in the original language.

All students majoring in English, whether they expect to teach or not, should take advanced courses in at least one foreign language. Those preparing for graduate work should have a reading knowledge of French and German and if possible take advanced courses in Latin.

It is strongly recommended that every student majoring in English shall take History 27-28 (History of England) unless she has had a satisfactory course in preparatory school. History 26 (Renaissance Civilization) is also recommended.

English Composition and Public Speaking

1-2. Composition. A study of the technique of writing. Weekly themes, chiefly expository. Elementary compilation. Note-taking, the use of libraries. Brief themes and long papers. Oral composition. Required of all students in the freshman year. Three hours, each semester. *Semester credit, three units.* Members of the department.

3. Intermediate Composition. For students who desire further practice in writing. Prerequisite, Courses 1-2. Two hours, first semester. *Credit, two units.* DR. BRINKLEY.

(The enrolment in Courses 3 and 4 will be limited to twenty students.)

4. Intermediate Composition. Continuation of Course 3, but may be elected independently of 3, with Courses 1-2 as the prerequisite. Two hours, second semester. *Credit, two units.* DR. BRINKLEY.

5. **Advanced Composition.** For students who have acquired some facility in writing. Prerequisite, Courses 1-2. Two hours, first semester. *Credit, two units.* MISS MCGINNIS.

(The enrolment in Courses 5 and 6 will be limited to fifteen students.)

6. **Advanced Composition.** Continuation of Course 5, but may be elected independently of Course 5, with Courses 1-2, as the prerequisite. Two hours, second semester. *Credit, two units.* MISS MCGINNIS.

7. **Narrative Writing.** Reading of selected narratives. Practice in various types of narrative writing. Prerequisite, Courses 53-54. Two hours, first semester. *Credit, two units.* MISS MCGINNIS.

8. **The Short Story.** The short story in America and in England from Poe to the present day, with some attention to the story in France and Russia. Each member of the class will write two stories. Prerequisite, Courses 53-54. Two hours, second semester. *Credit, two units.* MISS MCGINNIS.

10. **Debating.** A study of the principles and practice of Argumentation and Debate. Frequent debates on current questions. Long argument. In the debates the English system of discussion from the floor is employed. Prerequisite, Courses 1-2. Three hours, second semester. *Credit, three units.* DR. BRINKLEY.

(The enrolment in Course 10 will be limited to eighteen students.)

11. **Advanced Composition.** For students who have acquired some facility in writing. Prerequisite, Courses 1-2. Two hours, first semester. *Credit, two units.* DR. MILLER.

(The enrolment in Courses 11 and 12 will be limited to fifteen students.)

12. **Advanced Composition.** Continuation of Course 11, but may be elected independently with Courses 1-2, as the prerequisite. Two hours, second semester. *Credit, two units.* DR. MILLER.

13. **Advanced Composition.** For students who have acquired some facility in writing. Prerequisite, Courses 1-2. Two hours, first semester. *Credit, two units.* MR. BAKER.

(The enrolment in Courses 13 and 14 will be limited to fifteen students.)

14. **Advanced Composition.** Continuation of Course 13, but may be elected independently of 13, with Courses 1-2 as the prerequisite. Two hours, second semester. *Credit, two units.* MR. BAKER.

41. **Journalism.** A study of the periodical from Steele to Stevenson in its relation to permanent literature. Practice in the writing of magazine articles. Prerequisite, Courses 53-54. Two hours, first semester. *Credit, two units.* MR. BAKER.

42. **Journalism.** Continuation of Course 41, which is prerequisite. Study of news values and of the relation of the newspaper to the magazine. Practice in the writing of feature articles. Special emphasis on the writing of newspaper articles. Two hours, second semester. *Credit, two units.* MR. BAKER.

English Language and Literature

51. Old English. The elements of grammar. Reading of selected prose and poetry. An alternate with Course 59 as part A of the major requirement. Prerequisite, Courses 53-54. Three hours, first semester. *Credit, three units.* DR. HOPKINS, DR. WINSLOW.

52. Old English Literature. The reading of *Beowulf*. Prerequisite, Course 51. Three hours, second semester. *Credit, three units.* DR. HOPKINS, DR. WINSLOW.

53-54. Survey of English Literature. A study of English literature from the beginning to the present day. Required of all students in the sophomore year. Three hours, each semester. *Semester credit, three units.* Members of the department.

59. Chaucer. A detailed study of the General Prologue and some of the *Canterbury Tales*, and a more rapid reading of others. Prerequisite, Courses 53-54. An alternate with Course 51 as part A of the major requirement. Three hours, first semester. *Credit, three units.* DR. KUEHL, DR. BEATTY.

60. Chaucer. A careful study of *Troilus and Cressida*, as well as some of the earlier poems. Development of Chaucer as an artist. Prerequisite, Course 59 or 51. Three hours, second semester. *Credit, three units.* DR. KUEHL.

65-66. Medieval Literature: Arthurian Romance. A cursory view of the civilization of the Middle Ages. Introduction to the theories of the origin of the Arthurian legend, followed by the study of selected French and English medieval romances in translation and comparison with modern English versions of Arthurian story. Emphasis is placed on independent investigation to which the student is expected to devote as much time as is required in preparation for a course meeting three hours a week. Prerequisite, Courses 53-54. Two hours, each semester. *Semester credit, three units.* DR. HOPKINS.

68. English Drama to 1600. A study of the drama in England from its beginnings to 1600, exclusive of Shakspeare. The various types of early drama are considered mainly in their relation to the development of Elizabethan dramatic technique. Prerequisite, Courses 53-54. Three hours, second semester. *Credit, three units.* DR. WINSLOW.

69 and 70. Shakspeare. Rapid reading of twelve of the plays. Open to Sophomores only. Three hours, each semester. *Semester credit, three units.* DR. BEATTY, DR. WINSLOW.

(This course is repeated in the second semester.)

71. Shakspeare. A close study of three of Shakspeare's plays, together with a study of the literary, social, and historical background. Collateral reading of several other plays. Prerequisite, Courses 53-54. Three hours, first semester. *Credit, three units.* DR. KUEHL, MR. BAKER.

Course 71 or 72 constitutes part B of the major requirement.

72. Shakspeare. A continuation of Course 71, but may be elected independently. Prerequisite, Courses 53-54. Three hours, second semester. *Credit, three units.* DR. KUEHL, MR. BAKER.

80. Milton. An intensive study of Milton's English poetry, with brief attention to his prose. Milton as the embodiment of seventeenth century thought. Special attention to the historical and philosophical background, and to the fusion of the Renaissance and Puritan spirits. Prerequisite, Courses 53-54. Three hours, second semester. *Credit, three units.* DR. NICHOLSON.

81-82. English Poetry from Burns to Shelley. Intensive reading of representative romantic poets: Burns, Blake, Wordsworth, Coleridge, Byron, Keats, and Shelley. Prerequisite, Courses 53-54. Three hours, each semester. *Semester credit, three units.* DR. NITCHIE.

83. English Prose of the Eighteenth Century. A study of the chief prose writers of the century, exclusive of the novelists. Prerequisites, Courses 53-54. Three hours, first semester. *Credit, three units.* DR. BEATTY.

84. English Prose of the Nineteenth Century. A study of the chief prose writers of the century, exclusive of the novelists. Prerequisite, Courses 53-54. Three hours, second semester. *Credit, three units.* DR. BEATTY.

85. Victorian Poetry. A study of poetry in the Victorian Age with special emphasis on Browning and Arnold. Prerequisite, Courses 53-54. Three hours, first semester. *Credit, three units.* DR. HOPKINS.

Alternates with Course 91. Not given, 1925-26.

87. Victorian Poetry. A study of poetry in the Victorian Age with special emphasis on Tennyson and the Pre-Raphaelites. For Sophomores only. Three hours, first semester. *Credit, three units.* DR. WINSLOW, DR. NICOLSON.

91-92. The English Novel. The history of the novel from its beginnings in medieval romance to the nineteenth century. The second half of the course will be devoted to a study of the technique of the greater nineteenth century novelists. Prerequisite, Courses 53-54. Three hours, each semester. *Semester credit, three units.* DR. HOPKINS.

Alternate with Course 85.

95-96. Literary Criticism. A study of the principles of literary criticism and of the work of representative critics. Practical application of critical methods. Prerequisite, Courses 53-54. Three hours, each semester. *Semester credit, three units.* DR. NITCHIE.

101-102. Contemporary Drama. A study of the principles of the drama as an art form and the discussion of representative plays as illustrative material. The second half of the course will be devoted to a study of the more important figures of the British and American drama during the great revival of the last thirty years. Prerequisite, Courses 53-54. Two hours, each semester. *Semester credit, two units.* DR. MILLER.

103. Contemporary English Novel. A consideration of tendencies in form and material in the novel as practiced by Bennett, Galsworthy, Wells, and Conrad, with cursory attention to some of the minor figures. Prerequisite, Courses 53-54. Three hours, first semester. *Credit, three units.* DR. WHITNEY.

106. Contemporary Poetry. A study of leading poets and movements in England and America, with some emphasis on relations to previous periods.

Prerequisite, Courses 53-54. Two hours, second semester. *Credit, two units.*
MR. BAKER.

121. American Literature to 1860. A study of American Literature from the beginnings through Emerson. The earlier writings are considered briefly with reference to the development of a national consciousness. Prerequisite, Courses 53-54. Three hours, first semester. *Credit, three units.*
DR. WINSLOW.

122. American Literature from 1860 to the Present Time. A study of American literature from Walt Whitman to the present day. Prerequisite, Courses 53-54. Three hours, second semester. *Credit, three units.* DR. WINSLOW.

GEOLOGY

INSTRUCTOR DOGGETT

1. Geologic Processes. Interpretation of the origin and significance of the features of the earth in terms of formative and destructional processes: Earth sculpture, continent and mountain building, and vulcanism. The course includes an elementary study of rocks and minerals. Three hours lecture, occasional field trips on Saturdays, first semester. *Credit, three units.*

2. Historical Geology. The origin of the earth; earth history: its rhythmic nature, and faunal evolution as related thereto. Prerequisite, Course 1. Three hours lecture, occasional field trips on Saturdays, second semester. *Credit, three units.*

3. Minerals and Rocks. The composition, life history, uses and recognition, by methods applicable in the field, of common minerals and rocks. Prerequisite or required parallel, Course 1 or Chemistry 1-2. Two hours lecture, three hours laboratory work, first semester. *Credit, three units.*

10. Field and Laboratory Work. A study of the origin of the physiographic and geologic features of Baltimore and vicinity, and of the history of the area as induced therefrom. This course is preferably accompanied or preceded by Course 2. Prerequisite, Course 1. Three hours laboratory work, with field trips on Saturdays, second semester. *Credit, one unit.*

GERMAN

PROFESSOR FROELICHER

INSTRUCTOR GOODLOE

1. Prerequisites for students who elect German as their major subject: Courses A1-2, B1-2, or the equivalent in preparatory work.

2. Students doing major work in German must select the following courses: 3-4, 9-10, 11-12, 17-18. The remainder of the major requirement may be made by selecting courses from other departments as approved by the German department.

3. Other courses will be added from time to time to meet the needs of the students.

A1-2. Beginners' Course. Elementary grammar, reading, practice in speaking and writing. Three hours, each semester. *Semester credit, three*
tive work of nineteenth century dramatists in relation to contemporary semester has been completed.

B1-2. Intermediate Course. Modern prose and verse, with a study of syntax and practice in writing and speaking German. Required of all students offering two years of preparatory German, or taking A1-2, to meet the language requirement. Students who were admitted with three years of preparatory German may enter this course in the second semester. Three hours, each semester. *Semester credit, three units.*

3-4. Prose Composition. Practice in writing and speaking. Prerequisite, Courses A1-2. Two hours, each semester. *Semester credit, two units.*

9-10. Nineteenth Century Drama. Study of the lives and of representative works of nineteenth century dramatists in relation to contemporary tendencies in literature and society. Prerequisite, Courses B1-2. Three hours, each semester. *Semester credit, three units.*

Alternate with Courses 11-12. Not given 1925-26.

11-12. Classical German Drama. Study of the history and theory of the German drama in general, and of the classical German drama as developed in the eighteenth century by Lessing, Goethe, Schiller, together with the lives of these poets. Prerequisite, Courses B1-2, or four years of preparatory German. Three hours, each semester. *Semester credit, three units.*

Alternate with Courses 9-10.

17-18. Goethe. Faust and lyrics. Goethe's Faust, both parts, are read in connection with Goethe's Life. Open to Seniors. Prerequisite, Courses 9-1 or 11-12. Three hours, each semester. *Semester credit, three units.*

GREEK

PROFESSOR EBELING

The courses in Greek Art, Literature, and Life (21 to 26) are designed to meet the needs of the student of modern art, literature, and life. The first two subjects clarify as they are fundamental and comparatively simple; they furnish standards by which modern achievements may be appraised. Greek Life (25-26) rich in correspondence with modern life, offers in comparatively narrow limits an instructive survey of human activities.

Those who enter upon the study of the language will come into a more vital contact with ancient Greek thought and to a better appreciation of Greek literature, and will lay a foundation for the acquisition of a large part of modern scientific terminology. To the Latin teacher some knowledge of Greek is all but indispensable.

For the major requirement in Greek the equivalent of the courses offered is required, including only two units of Greek prose composition; in addition, some knowledge of Latin is expected.

A course in modern Greek, 7-8, will be given when there is a demand for it.

A1. Beginners' Course. This course will prepare for the reading of Greek Fables and the New Testament, Course A2, and will enable the student to consult a Greek lexicon in the study of etymologies. Three hours, first semester. *Credit, three units.* Credit will not be given until A2 is completed.

A2. (a) Grammar, Fables, and Short Stories. Two hours. **(b) New Testament.** One hour. Prerequisite, Course A1. Three hours, second semester. *Credit, three units.*

B1. Xenophon. Selections from the *Memorabilia*. This course will acquaint the student, at first hand, with Socrates and the Sophists, and will serve as an introduction to the study of Plato. Prerequisite, Courses A1, 2 or two years of preparatory Greek or special permission of the instructor. Three hours, first semester. *Credit, three units.*

B2. Homer. Selections from Homer or Plato. Greek epic poetry will be studied with the aid of Jebb's Introduction. Prerequisite, Course B1 or three years of preparatory Greek or special permission of the instructor. Three hours, second semester. *Credit, three units.*

3-4. Prose Composition. This course will be arranged to meet the needs of the class. Two hours, each semester. *Semester credit, two units.*

9. Greek Tragedy. Dialogues of Plato will be substituted when it is to the advantage of the class. Prerequisite, Course B2. Three hours, first semester. *Credit, three units.*

10. Lyric Poets and Theocritus. Other selections may be read to suit the needs and tastes of the class. Prerequisite, Course 9. Three hours, second semester. *Credit, three units.*

21. Greek Archaeology and Art. Beginning with a general study of art in Prehellenic Greece, this course will be devoted mainly to architecture. One hour, first semester. *Credit, one unit.*

22. Greek Archaeology and Art. Sculpture. One hour, second semester. *Credit, one unit.*

23. Greek Literature. Epic and lyric poetry. Standard English translations will be used. One hour, first semester. *Credit, one unit.*

24. Greek Literature. The Drama. Standard English translations will be used. One hour, second semester. *Credit, one unit.*

25-26. Greek Domestic and Social Life. Knowledge of the language will not be necessary. One hour, each semester. *Semester credit, one unit.*

(Course 26 may be taken independently of 25 with permission of the instructor.)

HISTORY

PROFESSORS: CURTIS

GALLAGHER

LONN

WILLIAMS

ASSOCIATE PROFESSOR STIMSON

INSTRUCTORS: RICHES

STICKNEY

The department of history classifies its field as follows: The Grade I course is introductory and aims to train the student in scholarly methods of work. Grade II comprises courses of medium difficulty and general cultural value. Grade III represents more intensive work in a relatively restricted field, usually with emphasis on individual research of a pro-seminar character. The proper sequence of courses for any student is determined by the following factors: (1) Freshmen must take the Grade I course; (2) Sophomores wishing to pursue further work in history should elect a Grade II course; (3) special prerequisites must be carefully regarded; (4) hyphenated courses cannot be taken to advantage unless selected for both semesters.

The major requirement is a minimum of 20 units selected from the department and a maximum of 10 from related subjects. The 20 history units are exclusive of the

freshman requirement. At least 10 units must be in Grade II and at least 8 units in Grade III courses. Six units of United States history are required of major students who have not had an acceptable course in this subject in the last two years of preparatory school; four units, if they have had this training. To determine what are considered related subjects, the student should consult the department.

Students intending to teach history are advised to elect History 91-92, preferably in the senior year.

A Course in Medieval Civilization, 25, will be given when occasion demands.

Required Course

11-12. Medieval and Modern European History. A survey, tracing the growth of characteristic medieval institutions and, in somewhat greater fullness, the general outline of modern history. The purpose of this course is three-fold: (1) To give the general student an intelligent understanding of the political, social, and intellectual development underlying contemporary society; (2) to furnish a background for the more advanced courses in history; (3) to train the beginner in scholarly methods of historical work. Required of all students in the freshman year. Grade I course. Three hours, each semester. *Semester credit, three units.* Members of the department.

Group A. Electives in European History

Open, unless otherwise stated, to students who have completed the required course.

13-14. History of France from 1789 to 1815. An advanced course in which the French Revolution is considered during the first semester and the Napoleonic Era during the second. The period is dealt with, not only from the national standpoint, but as an epoch in the life of the world. A reading knowledge of French is desirable, though not required. Open only to Juniors and Seniors. Grade III course. Three hours, each semester. *Semester credit, three units.* DR. CURTIS.

17-18. European History from 1815 to 1920. A general survey of European history in the nineteenth and twentieth centuries, beginning with a study of revolutionary and reactionary impulses which followed the Congress of Vienna, and tracing the main steps in the domestic and foreign policies of the European powers. Special emphasis is placed upon the expansion of Europe into Asia and Africa and the course of international politics leading up to the Great War of 1914. The course closes with a study of the Peace Settlement of 1919. Open only to Juniors and Seniors. Grade II course. Two hours, each semester. *Semester credit, two units.* DR. GALLAGHER.

Not given, 1925-1926.

17S-18S. European History from 1815 to 1920. An intensive, selective study of important developments of the nineteenth and twentieth centuries, running parallel to Courses 17-18. The course is open only to students who have completed, or are pursuing Courses 17-18. Grade III course. One hour, each semester. *Semester credit, two units.* DR. GALLAGHER.

(The enrolment in this course will be restricted to twelve students.)

Not given, 1925-1926.

21. Greek History. A survey of the political, social, and cultural history of the Greek world, from earliest Minoan times to the Hellenistic period and the Roman conquest, with emphasis upon contributions to modern civilization. In addition to its cultural value, this course and Course 22 are designed to be of aid to students of the classics and to those who expect to teach Ancient History in the secondary schools. Grade II course. Three hours, first semester. *Credit, three units.* DR. STICKNEY.

22. Roman History. A study of early peoples in Italy, the rise of Rome, her internal growth, her conquest of the Mediterranean, the Roman Empire to the end of the Ancient World. Emphasis will be placed on political, economic, and cultural development and on Roman contributions to civilization. Grade II course. Three hours, second semester. *Credit, three units.* DR. STICKNEY.

Courses 21, 22 will not be given in 1926-27; in that year Courses 19-20, Ancient Civilization, will be offered.

26 and 26R. Renaissance Civilization. In this course the Renaissance is interpreted as the period of transition from medieval to modern Europe. Emphasis is placed upon the development of economic, political, social, and aesthetic ideals in Italy from the fourteenth to the sixteenth centuries. Grade II course. Three hours, a semester. *Credit, three units.* DR. GALLAGHER.

(This course is repeated in the first semester.)

Not given, 1925-1926.

27-28. The History of England. The course emphasizes the growth of national institutions and the part played by England in the larger life of the world. It is of interest to students of English literature. Grade II course. Three hours, each semester. *Semester credit, three units.* DR. CURTIS.

Group B. Electives in American History

Open, unless otherwise stated, to students who have completed the required course.

53. History of the United States from the Age of Discovery to 1828. A general survey based upon the text-book and library reading. Grade II course. Three hours, first semester. *Credit, three units.* DR. WILLIAMS.

54. History of the United States from 1828 to the Present. This course is of the same general character as Course 53. Grade II course. Three hours, second semester. *Credit, three units.* DR. WILLIAMS.

55-56. History of the United States from 1877 to the Present. An intensive course which aims to give the student an understanding of the problems found in the recent history of the nation. A term paper will be required. Open to Juniors and Seniors only. Prerequisite, Courses 53, 54, or the equivalent. Grade III course. Three hours, each semester. *Semester credit, three units.* DR. WILLIAMS.

(The enrolment in these courses will be restricted to twelve students.)

Alternate with Courses 65-66. Not given, 1925-26.

57. The Civil War. Each student will be expected to study under direct supervision some topic connected with the Civil War, to use exhaustively

the available sources, and to present the results of her investigations in a carefully prepared paper. Open to Seniors only. Prerequisite, Courses 53, 54 or a satisfactory preparatory course in American history. Grade III course. Two hours, first semester. *Credit, two units.* DR. LONN.

(The enrolment in this course will be restricted to ten students, preference being given to those who have chosen history as a major subject.)

58. The Reconstruction Period. This course is of the same general character as Course 57, but the topics studied will lie within the Reconstruction period. Open to Seniors only. Prerequisite, Course 57. Grade III course. Two hours, second semester. *Credit, two units.* DR. LONN.

(The enrolment in this course will be restricted, as in Course 57.)

61. Spain in Europe and America. This is a general course and includes a survey of the history of Spain and Portugal in the Old World and the New down to the conclusion of the colonial wars for independence. A knowledge of Spanish is desirable, but not required. Grade II course. Three hours, first semester. *Credit, three units.* DR. WILLIAMS.

62. Latin America since the Establishment of Independence. This course, while giving an historical survey of all of the Latin-American states, lays special emphasis upon the development of Argentina, Brazil, Chile, Uruguay, and Mexico. Prerequisite, Course 61. Grade II course. Three hours, second semester. *Credit, three units.* DR. WILLIAMS.

65-66. International Relations of the United States. A general study stressing history of relations with the British Empire and Latin America. A term paper based upon diplomatic sources required. Open to Juniors and Seniors only. Prerequisite, Courses 53, 54, or the equivalent. Grade III course. Three hours, each semester. *Semester credit, three units.* DR. WILLIAMS.

(The enrolment in these courses will be restricted to twelve students.)
Alternate with Courses 55-56.

82. History of the Woman Movement in the United States. Primarily a lecture course, supplemented by outside reading, especially biographies of great women. A study will be made of the struggle for equal educational, political, legal, industrial, and professional rights for women, and related topics. Frequent comparisons will be made with conditions and developments in other countries. Grade II course. Two hours, second semester. *Credit, two units.* DR. WILLIAMS.

Group C. Electives in Special Topics

Open, unless otherwise stated, to students who have completed the required course.

41. The Development of the Scientific Point of View. A study in intellectual history that attempts to trace the changing attitude towards science from ancient times to the present. This course presupposes a general knowledge of European history. Grade II course. Open to Seniors, and to Juniors by special permission. Three hours, first semester. *Credit, three units.* DR. STIMSON.

91-92. The Teaching of History and Civics. Lectures and discussion on such problems as the aims of history teaching, the apparatus of history teaching, courses of study, text-books, class-room methods. Familiarity with the historical and pedagogical magazines will be acquired. Since civics is usually combined with history in the high school, a portion of the second semester will be devoted to discussion of the principles which should govern the teaching of that subject. Grade III course. One hour, each semester. *Semester credit, one unit.* DR. LONN.

93-94. Contemporary History. A study of current events and their relation to historical movements. Grade II course. Three hours, each semester. *Semester credit, three units.* DR. LONN.

(Seniors will be given the preference if the enrolment in this course exceeds twenty-five.)

95. Economic History. A study of the economic institutions of England and, in part, of continental Europe, including medieval village and town economy, manufacture and the guilds, commerce and the development of a medium of exchange, international trade and mercantilism, the Industrial Revolution and the economic, social, and political changes resulting therefrom, including the rise of capitalism. Grade II course. Open to all students who have had Economics and Sociology 1-2, and to others by permission. Three hours, first semester. *Credit, three units.* MISS RICHES.

96. Economic History. A study of the main economic forces and institutions in the history of the United States, including early colonial economy; the economic aspects of the Revolution; westward expansion, immigration and the disappearance of the frontier; the development of commerce, industry, and transportation; the effects of slavery on the development of the South; the tariff; financial problems; panics; the rise of the trusts and the development of trade unions. Grade II course. Open to all students who have had Economics and Sociology 1-2, and to others by permission. Three hours, second semester. *Credit, three units.* MISS RICHES.

HYGIENE

(See Physiology and Hygiene)

LATIN

PROFESSOR EBELING

ASSISTANT PROFESSOR BRAUNLICH *

The aims of the department of Latin are: to teach the students to read and understand classical Latin without translating it, or with a minimum amount of translation; to guide them to an appreciation of some of the great works of Latin literature; to further their command of English by means of exercises in translation from the Latin; to impart a knowledge—exact rather than extensive—of the relation of Latin to other languages, especially English and the Romance tongues; to show that "Latin is the broad highway from the past to the present"; to teach the students to observe the resemblances and differences which exist between the ancient Romans and ourselves and to help them discover some of the reasons for these resemblances and differences.

* Chairman of the Department.

Courses required for major students in Latin are: 5-6, 9, 10, 11-12, 15, 16, 19-20. Greek is strongly recommended as an auxiliary study. Any student intending to pursue graduate work in Latin will find Greek a necessity.

A selected number of the following courses may be counted toward the thirty units of the Latin major: all courses in Greek; English 5, 6, 7, 8, 11, 12, 13, 14, 51, 52, 59 to 122; Romance Language courses 5 to 18; German 9 to 18; History 21, 22, 26, 41; Art 3-4, 7; Philosophy 3, 5; Political Science 14; Economics and Sociology 41; Education 7, 8; Biology 20; Mathematics 32, 33-34.

Courses 31 to 42 are adapted to the needs of students who have no knowledge of Latin, as well as of those who have.

A1-2. Beginners' Course. The course is designed to give thorough instruction in grammar and syntax and facility in reading Cæsar and Nepos. Three hours, each semester. *Semester credit, three units.* No credit will be given for the first semester until the second semester has been completed. DR. EBELING.

B1-2. Intermediate Course. Selections from Latin prose-writers and from the Aeneid. Required of all students offering two years of preparatory Latin, or taking Latin A1-2, to meet the language requirement for the degree. Students who have completed three units of preparatory Latin will enter this course for the second semester. Three hours, each semester. *Semester credit, three units.* DR. EBELING.

5-6. Advanced Prose Composition. Varied each year according to the needs of the class. One hour, each semester. *Semester credit, one unit.*

9. Cicero. De Senectute. Selections from De Amicitia. Prerequisite, Course B2 or four years of preparatory Latin. Three hours, first semester. *Credit, three units.*

10. Horace. Odes. Prerequisite, Course 9. Three hours, second semester. *Credit, three units.*

11-12. Latin Literature. A study of the important authors from the earliest period to the end of the Western Empire. Selections will be read. Prerequisite, Course 10. Three hours, each semester. *Semester credit, three units.*

15. Martial and Juvenal. Roman life as portrayed by these authors. Prerequisite, Course 12. Two hours, first semester. *Credit, two units.*

Alternates with Course 19. Not given 1925-26.

16. Pliny Minor. Roman life as portrayed by Pliny. Prerequisite, Course 12. Two hours, second semester. *Credit, two units.*

Alternates with Course 20. Not given 1925-26.

19-20. Roman Elegy. First semester, selections from Catullus and Tibullus. Second semester, selections from Propertius and Ovid. Subjects for special study: history of the Roman elegy; the elegiac distich; the Alexandrian school of poetry. Prerequisite, Course 12. Two hours, each semester. *Semester credit, two units.*

Alternates with Courses 15 and 16.

21. Advanced Course in Virgil. Selections from the Eclogues, Georgics, and Aeneid, VII-XII. Open to Juniors and Seniors. Two hours, first semester. *Credit, two units.*

22. **Advanced Course in Virgil.** Continuation of Course 21, but may be elected independently. Open to Juniors and Seniors. Two hours, second semester. *Credit, two units.*

31. **Roman Private Life.** A study of the daily life of the Romans of the first century B. C. Discussion; reports; lectures illustrated with lantern slides and photographs. A knowledge of Latin is not required. Open to Freshmen and Sophomores only. Two hours, first semester. *Credit, two units.*

Alternates with Course 41. Not given 1925-26.

34. **Philosophy at Rome.** An elementary study of ancient schools of philosophy, especially the Stoic and the Epicurean, and of their influence upon Roman life. No knowledge of Latin or of philosophy is required. Open to Freshmen and Sophomores only. Two hours, second semester. *Credit, two units.*

Alternates with Course 42. Not given 1925-26.

41. **Latin Literature in Translation.** A study of the important authors to the beginning of the Augustan Age. Selections will be read in translation. A knowledge of Latin is not required. Not open to Freshmen. Two hours, first semester. *Credit, two units.*

Alternates with Course 31.

42. **Latin Literature in Translation.** A study of the important authors from the Augustan Age to the end of the Western Empire. Not open to Freshmen. Two hours, second semester. *Credit, two units.*

Alternates with Course 34.

MATHEMATICS

PROFESSORS: BACON
LEWIS

INSTRUCTOR —————

This department undertakes to prepare its major students to do graduate work in mathematics, to become teachers of mathematics in the secondary schools, or to enter those pursuits for which mathematical training is essential.

An effort is made to train the non-mathematical student in clear, logical, and accurate thinking and to give her some appreciation of the value of mathematics and its importance to the civilized world.

The department also cooperates with the departments of the sciences, philosophy, psychology, and social science by furnishing the mathematical equipment needed for work in those fields.

For students whose major work is mathematics the following courses are recommended:

1. Mathematics 3, or 5 if the equivalent of 3 was accepted for entrance.

2. Mathematics 8, 13, 14, 15-16, 17-18, 19, and 23.

3. The work to complete the 30 units for the major requirement may be chosen from the remaining mathematical courses, and from Economics and Sociology 21, History 41, or advanced courses in science or philosophy.

Students with scientific interests and those planning to major in Economics and Sociology are advised to elect Courses 3 and 8 in the freshman year.

Two additional courses, Modern Higher Algebra and Differential Equations, 20, 22, are given when occasion demands.

2. **Solid Geometry.** Properties of straight lines and planes; measurement of the geometric solids; geometry of the sphere. Three hours, second semester. *Credit, three units.* DR. BACON.

3. Plane Trigonometry. Definitions and relations of the trigonometric functions; logarithms; solution of triangles. Three hours, first semester. *Credit, three units.* Members of the department.

5. College Algebra. Permutations and combinations; binomial theorem; functions and limits, undetermined coefficients; theory of logarithms; determinants, and elements of the theory of equations; introduction to graphic analysis. Prerequisite, plane trigonometry. Three hours, first semester. *Credit, three units.* DR. BACON.

8. Plane Analytic Geometry. The analytic treatment of loci; elementary geometry of the conic sections; introduction to determinants. Prerequisite, Course 3 or 5. Three hours, second semester. *Credit, three units.* Members of the department.

9-10. Elementary Mathematical Analysis. An introductory course for scientific students. Elements of trigonometry, analytic geometry and calculus. Not open to Freshmen. Three hours, each semester. *Semester credit, three units.*

13. Differential and Integral Calculus. Derivation of formulæ for differentiation and integration with applications. Prerequisite, Course 8. Three hours, first semester. *Credit, three units.* DR. LEWIS.

14. Differential and Integral Calculus. Continuation of Course 13, which is prerequisite. Definite integrals applied to the calculation of areas and volumes and to mechanics. Three hours, second semester. *Credit, three units.* DR. LEWIS.

15-16. Advanced Analytic Geometry. The general equation of the second degree; the introduction of homogeneous co-ordinates; elements of higher plane curves and solid analytics. Prerequisite, Courses 13, 14. Two hours, each semester. *Semester credit, two units.* DR. BACON.

17-18. Advanced Calculus. Additional topics involving definite integrals; infinite series; theory of probability and least squares. Prerequisite, courses 13, 14. Two hours, each semester. *Semester credit, two units.* DR. LEWIS.

19. Pure Projective Geometry. Prerequisite, Courses 13, 14. Three hours, first semester. *Credit, three units.* DR. BACON.

23. History of Mathematics. Prerequisite, Courses 13, 14. One hour, first semester. *Credit, one unit.* DR. LEWIS.

24. The Teaching of Mathematics. One hour, second semester. *Credit, one unit.* DR. BACON.

32. Astronomy. A brief course in descriptive astronomy designed for students of language and literature; telescopic observation. Not open to Freshmen except by special permission of the instructor. No prerequisite. Three hours, second semester. *Credit, three units.* DR. LEWIS.

33-34. Astronomy. General astronomy from the mathematical and physical standpoint; theories of cosmogony; supplementary reading in the history of astronomy. Telescopic observation. Open to Juniors and Seniors. Prerequisite, Course 13 and Physics 1-2, or the equivalents. Three hours, each semester. *Semester credit, three units.* DR. LEWIS.

42. Mathematical Statistics. Prerequisite, Courses 13, 14, and Economics and Sociology 21. Three hours, second semester. *Credit, three units.*

PHILOSOPHY

PROFESSOR BUSSEY

ASSOCIATE PROFESSOR HAWES

The department of philosophy aims (a) to encourage the student to develop a philosophical attitude, (b) to introduce her to a consideration of the principal philosophical problems. The required course seeks to encourage independent thinking, and to acquaint the student with the nature of philosophy and with the meaning of the most important philosophical concepts. The elective courses are designed to aid the student in developing her own thinking and to give her a general knowledge of the principal philosophical systems to serve as a basis for further study.

Students are strongly advised to take the required course in the junior year. The course, however, may be taken in the sophomore year parallel with the required course in psychology by those intending to do major work in the department.

The department desires to make its major requirement as flexible as possible. Allied courses in other departments are recognized in fulfillment of the requirement.

1 and 2. Introduction to Philosophy. A general course dealing with the problems and terminology of philosophy. Required of all students who do not elect Courses 9-10. Prerequisite, Psychology 1, or by special permission may parallel Psychology 1. Three hours, a semester. *Credit, three units.* DR. BUSSEY and DR. HAWES.

(This course is repeated in the second semester.)

3. Ancient and Medieval Philosophy. A brief study of the development of Greek philosophy and of its influence upon medieval thought. The greater part of the time is given to a text study of Plato's Dialogues. Prerequisite, Course 1. Three hours, first semester. *Credit, three units.* DR. BUSSEY.

4. Modern Philosophy. An historical survey of the main philosophical systems from Descartes through Spencer. Special attention is given to Kant's *Critique of Pure Reason* and to its relation to preceding and succeeding tendencies in philosophy. Prerequisite, Course 1. Three hours, second semester. *Credit, three units.* DR. BUSSEY.

5. Genetic Ethics. A study of the evolution of moral ideals and practices. Prerequisite, one course in philosophy. Three hours, first semester. *Credit, three units.* DR. HAWES.

6. Ethics. A study of ethical principles, with a consideration of the ethical aspects of some of the most important present-day problems. Prerequisite, one course in philosophy. Three hours, second semester. *Credit, three units.* DR. HAWES.

7. Contemporary Philosophy. A study of some of the fundamental problems in contemporary thought. Prerequisite, Course 1. Three hours, first semester. *Credit, three units.* DR. BUSSEY and DR. HAWES.

8. Philosophy of Religion. A study of the fundamental conceptions and problems of religion, and of its relation to science, morality, and metaphysics. Prerequisite, Course 1. Three hours, second semester. *Credit, three units.* DR. BUSSEY and DR. HAWES.

9-10. Problems of Philosophy. A more detailed and thorough study of the problems considered in Course 1. May be elected in the junior year in place

of Course 1, parallel with Psychology 1. Three hours, each semester. *Semester credit, three units.* DR. BUSSEY.

No credit for the first semester will be granted until the second semester has been completed.

11. Philosophies of Life. An introductory course intended to aid the student in attaining greater self-dependence in dealing with vital ethical problems, and to assist her in constructing a practical philosophy of life. Open to Sophomores and to others by special permission. Three hours, first semester. *Credit, three units.* DR. HAWES.

PHYSICAL EDUCATION

MISS VON BORRIES

MISS PLUMBE

MISS WISNER

MISS FORD

MISS ROCKWOOD

MISS MASSEY

DR. VAN DUYNE (Medical Adviser)

Every candidate for the degree is required to take, each year, a specified amount of work in the Department of Physical Education. This work is arranged on a basis of three hours of exercise each week throughout the four years' course.

Each student on entrance presents a certificate of health from her family physician on a blank furnished by the College. At the opening of the session a medical and physical examination is made of each new student and her history taken. The facts ascertained form part of her permanent health record and furnish the starting point for the supervision of her health. Assignments to required work in the gymnasium are made in accordance with the results of these examinations.

During the first two years general class work is of the formal type; marching, running, free-standing gymnastics, apparatus work, games, and folk dancing. Juniors and Seniors are permitted a wider choice and may take swimming, dancing, or any of the sports listed below. The equipment consists of three gymnasiums, a swimming pool, tennis courts, hockey field, and a public golf course. Provision is made for horseback riding near the city, under the supervision of a capable instructor.

An excellent swimming pool makes possible the requirement that every student of junior and senior rank, unless excused for medical reasons, shall take swimming lessons until the college test has been passed.

As indicated above, assignments are made and gymnasium credits given for the following: 1. General class work. 2. Advanced class gymnastics. 3. Individual and remedial gymnastics. 4. Swimming. 5. Dancing. 6. Hockey. 7. Basketball. 8. Baseball. 9. Tennis. 10. Horseback riding. 11. Golf. 12. Walking.

Inter-class and other intra-mural competitive athletics are arranged for by the Athletic Association under the supervision of the Physical Education

Department. The athletic activities of the students are under the constant supervision of the medical officers of the College.

PHYSICS

PROFESSOR TAYLOR

ASSISTANT PROFESSOR BARTON

INSTRUCTORS: ADAMS

WEBER.

ASSISTANTS: MARTIN

WALKER

The required course in physics seeks to develop methods of reasoning and conceptions of nature which are essential in every liberal education. The elective courses are a continuation of this liberal training and at the same time are designed as parts of a major course in physics or as related courses for major work in other departments.

There are two types of major courses offered in the physics department. First, a course in theoretical physics which is designed for students wishing to take graduate degrees in physics or mathematics, or who wish to pursue the subject professionally as teachers, workers in research laboratories, or in technical occupations of various kinds. The second type is a course in applied physics and considers the subject from a physical, rather than a mathematical standpoint. It is therefore less mathematical than the former, and is designed as the basis of a cultural education with science as its predominating thought. Students desiring to obtain such a scientific training, should consult the chairman of the department in their freshman year or as early in their course as possible in order to utilize their time to the best advantage by a wise selection and arrangement of the most desirable courses.

Courses dealing with Thermodynamics, Sound, Photography, and Radio transmission will be given if called for.

1-2. Elementary Physics. A freshman course for beginners, treating briefly the elements of mechanics, heat, sound, light, and electricity. A text-book is used in connection with demonstrated lectures, class discussions, simple problems, etc. Required of all students who have satisfactorily completed a preparatory course in chemistry or, as alternate courses with Chemistry 1-2, of students who have not completed a satisfactory preparatory course in either physics or chemistry. Three hours lecture, three hours laboratory work, each semester. *Semester credit, three units.*

3-4. General Physics. This course considers the subject from an experimental or physical standpoint without the use of mathematics beyond trigonometry. Lectures, problems, demonstrations, and class discussions with the use of a text-book are the methods employed. It is intended for those preparing to be teachers, medical students, and for any others who may desire a broad and general knowledge of physics, but who may not have the time or taste for an extended theoretical course. It may be taken in the sophomore year, but is not recommended for Freshmen. Prerequisite, Courses 1-2 or the equivalent. Three lectures, three hours laboratory work, each semester. *Semester credit, three units.*

5. Descriptive Physics. A course consisting of demonstrated lectures and class-room discussions intended for students of language and literature. No attempt is made to give a complete course in Physics, but the subjects considered are selected because of their historic interest or scientific value. The

topics are presented in simple non-mathematical language and explained in the light of present scientific knowledge, special attention being given to recent developments. Not open to Freshmen. No prerequisite. Three hours, first semester. *Credit, three units.*

8. Geophysics. A brief lecture course concerning the formation and development of the earth; its shape, size, age, structure, origin of mountain ranges, cause and action of tides, cyclones, and earthquakes. Not open to Freshmen. Prerequisite, Physics 1-2, or its equivalent. Three hours, second semester. *Credit, three units.*

9. Mechanics. An advanced course in the mechanics of solids, liquids, and gases applied to problems of practical experience. Prerequisite, Courses 1-2 or equivalent and Mathematics 3. A working knowledge of Calculus is very desirable. Three hours lecture, four hours laboratory work, first semester. *Credit, four units.*

11 or 12. Heat. The theory of heat, calorimetry, heat transmission, problems and experiments. Prerequisite, same as for Course 9. Two hours lecture, four hours laboratory work, first or second semester. *Credit, three units.*

14. Light. The theory of light, spectrum analysis, interference, diffraction, aberration, and photometric theory. Prerequisite, same as for Course 9. Three hours lecture, four hours laboratory work, second semester. *Credit, four units.*

15-16. Electricity. An advanced course in electrostatics, magnetism, and electrodynamics including direct-current appliances, alternating-current theory, and radio transmission. Prerequisite, same as for Course 9. Three hours lecture, four hours laboratory work, each semester. *Semester credit, four units.*

17-18. Atomic Phenomena. The purpose of this course is to become familiar with the methods and results of recent important investigations regarding the constitution of matter and electronic phenomena. Radioactivity and electronic measurements constitute an important part of the course. Best books on the subject are studied together with the original papers. Prerequisite, Courses 3-4 or certain other advanced courses in Physics. Three hours, each semester. *Semester credit, three units.*

PHYSIOLOGY AND HYGIENE

PROFESSOR KING

ASSISTANT PROFESSORS: VAN DUYNE

VAN WINKLE

ENGLISH

INSTRUCTOR WALTERS

ASSISTANT GRIMES

The courses in this department are organized to teach college students the methods and generalizations of physiological science, and the practical applications of physiological knowledge to the maintenance of health and the promotion of human efficiency. The courses are not pre-medical. Students expecting to study medicine should consult the chairman of this department in their freshman year as to the possibility of arranging a pre-medical major.

While the courses are designed primarily for the general student because of the relation of their content to an understanding of human life, the selection of the matter presented and of the laboratory methods used takes into consideration the needs for fundamental physiological knowledge of the following classes of students: 1. Those who look forward to university work in physiology or in hygiene and public health; 2. Those preparing for definite vocations, (a) as teachers of general science or of hygiene or of home economics or of physical training (b) as laboratory assistants in bacteriological and bio-chemical laboratories.

The major requirements in the department are met by adding to selected courses in this department courses chosen from those offered in the departments of chemistry, physics, biology, psychology, mathematics, and economics and sociology.

1 and 2. Personal Hygiene. A brief study of the structure and functions of the human body is associated with a consideration of the problems of personal hygiene, including the hygiene of nutrition, of reproduction, of infancy and childhood, of adolescence, and mental hygiene. Required of all students, preferably in the sophomore year. Prerequisite, Biology 1. Three hours lecture, three hours laboratory demonstration, a semester. *Credit, three units.* DR. VAN WINKLE and members of the department.

(This course is repeated in the second semester.)

3. Hygiene and Public Health. A course in public health and sanitation. A study of the principles underlying public health practice is followed by a study of the history of public health, the modern public health program, and the methods—national, state, and municipal—by which the community may prevent disease, prolong life, and promote health. Prerequisite, Course 1. Two hours lecture, two and one-half hours laboratory work, first semester. *Credit, three units.* DR. VAN WINKLE.

6. Physiology of the Nervous System. This course is designed to give the student an elementary knowledge of the structure and functions of the nervous system through dissections, a study of histological preparations and physiological experiments. Prerequisite, Course 1. Two hours lecture, three hours laboratory work, second semester. *Credit, three units.* DR. KING.

7. General Physiology. An introductory course in general physiology arranged for students who expect to major in the department. It requires an elementary knowledge of physics, chemistry, and general biology and concerns itself with the processes by which the organs of the animal body act and by which they play their parts along with other organs. The course introduces the student to the experimental methods used in physiology. Prerequisite, Course 1, Physics 1-2, Chemistry 1-2. May parallel either Physics 1-2 or Chemistry 1-2. One hour lecture, five hours laboratory work, first semester. *Credit, three units.* DR. KING and Assistant.

8. Nutritional Physiology. This course is planned to supplement courses in physiological chemistry. It includes a study of the structure of the digestive system, of the mechanical factors of digestion, of the physiological mechanisms of secretion and absorption, and of metabolism. Prerequisites, Course 1, Physics 1-2. Chemistry 40 should precede or parallel; Chemistry 71-72 advised. One hour lecture, five hours laboratory work, second semester. *Credit, three units.* MISS ENGLISH.

9. Elementary Nutritional Hygiene. This course is based on the important experimental work which has established the newer knowledge of nutri-

tion. Human experience with diets of different kinds is discussed. The need of "protective foods" throughout the life cycle is stressed. Prerequisite, Course 1 and Chemistry 1-2. Three hours lecture, first semester. *Credit, three units.* MISS ENGLISH.

16. **The Physiology of Exercise.** The dissection of the nervous and muscular systems of a mammal is followed by a study of the changes taking place in the body during exercise and of the adjustments involved in carrying it out efficiently. The relation of exercise to hygiene and health is considered in its historical, educational, and practical aspects. Prerequisite, Course 6. Two hours lecture, three hours laboratory and practice work, second semester. *Credit, three units.* DR. VAN DUYNE, and Staff of Physical Education Department.

17. **The History of Physiology.** A study of the great discoveries in physiology that have been landmarks in its progress. Open to students taking advanced courses in this department. Two hours lecture, first semester. *Credit, two units.* DR. KING.

21. **General Bacteriology.** The physiological activities of moulds, yeasts, bacteria, and other unicellular organisms are studied with special reference to hygiene and to personal and public methods of sanitation. Prerequisite, Course 1, and Physics 1-2 and Chemistry 1-2, or equivalents. One hour lecture, five hours laboratory work, first semester. *Credit, three units.* DR. KING and Assistant.

24. **Advanced Bacteriology.** A study of important pathogenic organisms and their general relations to disease is followed by a consideration of the mechanism of infection and immunity. Prerequisite, Course 21. One hour lecture, five hours laboratory work, second semester. *Credit, three units.* DR. KING and Assistant.

POLITICAL SCIENCE

PROFESSOR DEBEL

ASSISTANT PROFESSOR MERRITT

INSTRUCTOR WINSLOW

The courses in this department are planned with a threefold purpose: (1) to prepare for the teaching of civil government in secondary schools, (2) to lay a broad and general foundation for the study of law or for graduate study in political science, and (3) to prepare the student for active and intelligent citizenship. Students majoring in the department will be required to take 20 units in political science together with 10 additional units selected from the courses offered by the departments of history and Economics and Sociology.

Courses 1 and 2 are open to all students. As a general rule, where students are able to give more than six units to political science, it will be better to begin work in the department with these courses. Course 2 may be taken before Course 1. These courses are recommended especially for all prospective teachers of civil government or American history as well as for any student desiring to acquire a general working knowledge of the American political system.

Students majoring in the department will be expected generally to follow Courses 1 and 2 with 3 and 4. Courses 3 and 4 complement one another and should, if possible, be taken in the order given. These two courses are recommended especially for prospective social workers.

1. American Government. A study of the historical development, structure, and operation of the national government of the United States. Three hours, first semester. *Credit, three units.* DR. DEBEL, DR. MERRITT, and MR. WINSLOW.

2. American State Government. The position of the states in the Union; the formation and admission of new states; state constitution; organization and functions of state and local government. Three hours, second semester. *Credit, three units.* DR. DEBEL, DR. MERRITT, and MR. WINSLOW.

3. Municipal Government. A study of the historical development of municipal government; the relation of the city to the state; municipal powers and liabilities; the machinery and operation of present-day municipal organizations. Not open to Freshmen. Three hours, first semester. *Credit, three units.* MR. WINSLOW.

4. Municipal Administration. A study of American municipal functions; the problems of personnel administration; city planning and zoning; organization and functions of the agencies of municipal administration; municipal finance, etc. Baltimore's administrative agencies used as illustrative material. Not open to Freshmen. May precede Course 3. Three hours, second semester. *Credit, three units.* MR. WINSLOW.

5. Party Government. The nature and functions of political parties. The origin, growth, organization, and methods of political parties in the United States. Not open to Freshmen. Two hours, first semester. *Credit, two units.* DR. DEBEL.

6. Problems of Party Government. A study of the problems and questions arising out of party government, such as, corrupt practices legislation, the direct primary, the initiative and referendum, the short ballot, etc. Not open to Freshmen. Two hours, second semester. *Credit, two units.* DR. DEBEL.

7. International Law. The development and present status of international law; the laws of peace and war; the rights and duties of neutrals. Not open to Freshmen. Three hours, first semester. *Credit, three units.* DR. DEBEL.

8. American Diplomacy. Constitutional provisions and governmental agencies relative to the conduct of foreign affairs; the President; the Senate; the Department of State; the diplomatic service; the methods and traditional principles of the foreign policy of the United States. Some attention is given to the most recent attempts to organize the world for permanent peace. Lectures, assigned readings, class papers. Not open to Freshmen. Three hours, second semester. *Credit, three units.* DR. DEBEL.

9-10. Comparative European Governments. A study of the constitutional systems and the actual operation of the greater European nations. The first semester is devoted to Great Britain. The second to France, Germany, Russia, Switzerland, Italy. Prerequisites, Course 1, 2 or junior standing. By permission of the instructor Course 10 may, if necessary, be taken before Course 9. Two hours, each semester. *Semester credit, two units.* DR. MERRITT.

11. The Nature of the State. A study of the principles of political science; the state; sovereignty and liberty; constitutions; the nature of law; the proper functions of government; principles of legislative, executive, and judicial organization. Prerequisite, Courses 1, 2, or 9-10, or senior standing. Two hours, first semester. *Credit, two units.* DR. DEBEL.

14. History of Political Philosophy. This course is designed to offer a rapid survey of the history of ancient, medieval, and modern political thought in relation to political history. It will include a study of the most important theories of such men as Plato, Aristotle, Polybius, Dante, Machiavelli, Thomas Aquinas, Grotius, Milton, Hobbes, Locke, etc. Prerequisite, Courses 1, 2, or 9, 10, or senior standing. Two hours, second semester. *Credit, two units.* DR. DEBEL.

PSYCHOLOGY

PROFESSOR BOWMAN
INSTRUCTOR RUTHERFORD
ASSISTANT WOOLSEY

The department of psychology aims to give to the student the fundamentals of general and experimental psychology. The courses are designed to give the necessary foundation to those who intend to carry on graduate work in this field, or to undertake work in other fields in which a knowledge of psychology is essential. Courses recommended for major work in this department are: in the department of psychology, three courses in experimental psychology and Courses 2 and 14; in the department of philosophy, two courses in addition to the required course: one course in advanced laboratory work in biology, physiology, or physics; Mathematics 3 or 5, Biology 20; allied courses in other departments, as Education 10, Economics and Sociology 21, etc., according to the needs of the individual student.

1 and 1R. Introduction to Psychology. Lectures and discussions: demonstration experiments. Required of all students. Prerequisite, Biology 1, Physiology and Hygiene 1. Three hours, a semester. *Credit, three units.* Members of the department.

(This course is repeated in the second semester.)

2. Imagination, Memory, and Thought. Lectures, discussions, and experimental work on (a) the nature and types of mental imagery and the method of investigating them; (b) the acquisition and retention of mental material; (c) the analysis of the thought processes. Prerequisite, Course 1. Three hours, second semester. *Credit, three units.* DR. BOWMAN.

3 and 4. Experimental Psychology. Laboratory experiments in sensation. Prerequisite, or required parallel, Course 1. One hour lecture, five hours laboratory work, a semester. *Credit, three units.* MISS RUTHERFORD.

(This course is repeated in the second semester.)

5 or 6. Experimental Psychology. Laboratory experiments in attention and perception. Prerequisite, Course 3. One hour lecture, five hours laboratory work, first or second semester. *Credit, three units.* MISS RUTHERFORD.

11 or 12. Advanced Experimental Psychology. Investigation of a selected problem. Open to students who have taken sufficient experimental

work in the department. Six hours laboratory and conference work, first or second semester. *Credit, three units.* DR. BOWMAN.

14. **General Psychology.** The genetic inheritance of mind; relation of psychology to the physiological, medical, biological, and social sciences; habit, instinct, illusion, hallucination, dream, and other special problems; abnormal psychology; applications of psychology to the arts, professions, and industries. Prerequisite, Course 1. Three hours, second semester *Credit, three units.* MISS RUTHERFORD.

15 or 16. **The Psychology of Learning.** Laboratory experiments in mental and motor learning, fatigue, etc. Prerequisite, Course 1. One hour lecture, five hours laboratory work, first or second semester. *Credit, three units.*

21. **Methods of Study.** This course is designed to aid the student in her college work, by showing her efficient methods of study, as they have been developed by the application of psychology, and by giving her training in reasoning. Three hours, first semester. *Credit, three units.* DR. BOWMAN and DR. BUSSEY.*

ROMANCE LANGUAGES

PROFESSOR BEARDSLEY

ASSISTANT PROFESSORS: CROOKS

LEMMI

PHILIPS

INSTRUCTORS: ARBOLEDA

GODDARD

ROSENBERGER

SEDGWICK

SEIBERT

The spoken language is strongly emphasized in all courses in French, Spanish, and Italian offered by this department. In the elementary courses in French the students have daily drill in those sounds giving special difficulty. The advanced courses of the department are all conducted in the language studied.

Courses A 1-2 and B 1-2 are required in any one of the Romance Languages studied with a view to the removal of the language requirement of the college. Courses counting thus cannot also be counted toward the 30 hours required of the student majoring in this department. Major students of Romance languages will be urged to take related courses offered by other departments, and such courses up to 10 hours may be admitted as a part of the major requirement for specially proficient students. Among such related courses are the following: History 13-14 (History of France from 1789 to 1815); History 61 (Spain in Europe and America); History 62 (Latin America since the establishment of Independence); Latin 5-6, 11-12 (Latin language and literature).

Major students of the department electing French 9-10 (elementary course in literature) will be urged to take at the same time French 3-4 (intermediate composition) so that they may be able to use French for original compositions in French 9-10 and advanced courses. French 13-14 and 15-16 may be taken in any order satisfactory to the student and to the department.

The courses in Spanish and Italian will be organized in general according to those in French, but will be varied to meet the needs of the individual classes.

* Professor in the department of Philosophy.

Seniors will not be given the official recommendation of the department for teaching French, Spanish, or Italian unless they have successfully completed an advanced course in composition (if offered by the department) in the language for which they are recommended (*e. g.*, French, 5-6, etc.).

Special courses not listed below (Dante, Old French, etc.) will be offered from time to time as occasion may arise.

French

A1-2. Beginners' Course. Three hours, each semester. *Semester credit, three units.* No credit will be granted for the first semester until the second semester has been completed. Members of the department.

B1-2. Intermediate Course. Required of all students offering two years of preparatory French, or taking French A1-2, to meet the language requirement for the degree. Three hours, each semester. *Semester credit, three units.* Members of the department.

B1R-2R. Intermediate Course. A repetition of Course B1-2 beginning in the second semester. Students who have completed three units of preparatory French will enter Course B2R for the first semester.

3-4. French Syntax and Composition. Prerequisite, Courses B1-2 or the equivalent. Two hours, each semester. *Semester credit, two units.* Members of the department.

5-6. Advanced French Composition and Conversation. Prerequisite, Courses 3-4. Two hours, each semester. *Semester credit, two units.*

9-10. Contemporary French Literature. Prerequisite, Courses B1-2 or four years of preparatory French. Three hours, each semester. *Semester credit, three units.* Members of the department.

9R. A repetition of Course 9 given in the second semester. Three hours, second semester. *Credit, three units.*

13-14. French Literature of the Eighteenth Century. Prerequisite, Courses 9-10. Three hours, each semester. *Semester credit, three units.* DR. PHILIPS.

15-16. French Literature of the Classical Period. Prerequisite, Courses 9-10. Three hours, each semester. *Semester credit, three units.*

17-18. Survey of French Literature. Prerequisite, Courses 9-10 and senior standing. Three hours, each semester. *Semester credit, three units.* DR. BEARDSLEY.

21-22. The Teaching of French. Open to Seniors who have secured the permission of the instructor. Three hours, each semester. *Semester credit, two units.*

Italian

MR. LEMMI

A1-2. Beginners' Course. Three hours, each semester. *Semester credit, three units.* No credit will be granted for the first semester until the second semester has been completed.

B1-2. Intermediate Course. Prerequisite, Courses A1-2, or the equivalent. Required of all students taking Italian A1-2 to meet the language requirements for the degree. Three hours, each semester. *Semester credit, three units.*

9-10. Modern Italian Literature and Composition. Prerequisite, Courses B1-2 or the equivalent. Three hours, each semester. *Semester credit, three units.*

Spanish

A1-2. Beginners' Course. This course may not be elected in the same year with Italian A1-2. Three hours, each semester. *Semester credit, three units.* No credit will be granted for the first semester until the second semester has been completed.

B1-2. Intermediate Course. Required of all students offering two years of preparatory Spanish, or taking Spanish A1-2, to meet the language requirement for the degree. Students who have completed three units of preparatory Spanish will enter this course for the second semester. Three hours, each semester. *Semester credit, three units.* Members of the department.

3-4. Spanish Syntax and Composition. Prerequisite, Courses B1-2 or the equivalent. Two hours, each semester. *Semester credit, two units.* MISS ARBOLEDA.

9-10. Modern Spanish Literature. Prerequisite, Courses B1-2 or the equivalent. Three hours, each semester. *Semester credit, three units.* DR. CROOKS.

15-16. South American Literature. Prerequisite, Courses 9-10. Three hours, each semester. *Semester credit, three units.* MISS SEDGWICK.

21-22. The Teaching of Spanish. Open to seniors only. Two hours, each semester. *Semester credit, one unit.*

SOCIOLOGY

(See Economics)

ZOOLOGY

(See Biology)