191

Georgetown University

COLLEGE OF ARTS AND SCIENCES
UNDERGRADUATE SCHOOL

CATALOGUE

1944-1945

WITH ANNOUNCEMENTS FOR 1945-1946

WASHINGTON, D. C.

May, 1945

VERSITY

the term is only twelve weeks,
r as the standard measure of
ght hours of class, lecture or
e considered to be the equiva-

fore the end of the sophomore
ference with his student ad-
lective† for the ensuing two
the student's desires, but his
his choice of a graduate or
he has received his bachelor's
hat are prerequisites for ad-
a firm foundation for his

tever a student's major may
d courses of Philosophy and

than 18 semester hours of
jects so closely related as to
ed reading or investigation
ior year candidates will be
me portion of their major
4) to pass a comprehensive

d Senior has been provided
ng number of hours may
n of the Faculty Advisers.
Major work may be per-
dent to complete specific

varded and determined on
grade point quotient com-
grade of A is assigned a
0; E, —1.

ch the four-year average
which requires an aver-
uires an average of 3.

be made prior to Registration
jor groups namely, four year
sics Group and Mathematics

r of upper division students,
nts of the Bachelor of Arts
chelor of Science and Social
urses in Literature, History,
8-1914, 1914-1940. These

OUTLINE OF COURSES

Bachelor of Science — Chemistry

	Clock Hours per Week	Semester Hours Credit
1st Term		
Physics	7	4.5
Chemistry	3	2.25
Mathematics	4	3
English	4	3
Religion	2	.75
	20	13.5
2nd Term		
Physics	7	4.5
Chemistry	6	3
Mathematics	4	3
English	4	3
Religion	2	.75
	23	14.25
3rd Term		
English	4	3
Chemistry	6	4.5
Mod. Lang.	4	3
Physics	7	3
Religion	2	.75
	23	14.25
4th Term		
English	4	3
History	4	3
Mod. Lang.	4	3
Org. Chem.	6	3
Religion	2	.75
	20	15.75
5th Term		
Philosophy	6	4.5
Org. Chem.	6	3
History	4	3
Mod. Lang.	4	3
Religion	2	.75
	22	14.25
Terms 6, 7, and 8		
Philosophy	6	4.5
Major (2 courses)	8	6
Elective	4	3
Religion	2	.75
	20	14.25

Bachelor of Science — Physics

	Clock Hours per Week	Semester Hours Credit
1st Term		
Physics	7	4.5
Chemistry	3	2.25
Mathematics	4	3
English	4	3
Religion	2	.75
	20	13.5
2nd Term		
Physics	7	4.5
Chemistry	6	3
Mathematics	4	3
English	4	3
Religion	2	.75
	23	14.25
3rd Term		
English	4	3
Physics	7	4.5
Mod. Lang.	4	3
Mathematics	4	3
Religion	2	.75
	21	14.25
4th Term		
English	4	3
History	4	3
Mod. Lang.	4	3
Physics	4	3
Mathematics	4	3
Religion	2	.75
	22	15.75
5th Term		
Philosophy	6	4.5
History	4	3
Mod. Lang.	4	3
Physics	4	3
Religion	2	.75
	20	14.25
Terms 9 and 10		
Philosophy	6	4.5
Major (2 courses)	8	6
Religion	2	.75
	16	11.25

Bachelor of Science — Mathematics

	Clock Hours per Week	Semester Hours Credit
1st Term		
Physics	7	4.5
Chemistry	3	2.25
Mathematics	4	3
English	4	3
Religion	2	.75
	20	13.5
2nd Term		
Physics	7	4.5
Chemistry	6	3
Mathematics	4	3
English	4	3
Religion	2	.75
	23	14.25
3rd Term		
English	4	3
Physics	7	4.5
Mod. Lang.	4	3
Mathematics	4	3
Religion	2	.75
	21	14.25
4th Term		
English	4	3
History	4	3
Mod. Lang.	4	3
Mathematics	4	3
Religion	2	.75
	18	12.75
5th Term		
Philosophy	6	4.5
History	4	3
Mod. Lang.	4	3
Mathematics	4	3
Religion	2	.75
	20	14.25

Assuming 4 clock hrs = 3 sem hrs:
Math major needs 45 sem hrs
Total to graduate:

IVERSITY

r Napoleon; the conflict between the
idependence movement of small coun-

Professor KEREKES

political, social and economic changes
-Hungarian Empire and Russia; the
formation of the system of alliances.

Professor KEREKES

ary preparedness and the armament
'ersailles Treaty and its consequences;
; causes of the present world-conflict.

Professor KEREKES

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5-1848

nd movements in a critical period of
consequences of the American and
ngland and on the Continent. The
lism, and Chartism. Romanticism,
w Europe. American constitutional

Professor YATES

1-1914

speculation, their leaders, and some
iberalism, Scientific Socialism; other
III. The modification of Liberalism,
the British Parliament. The Third
of Italy. The United States, from

Professor YATES

to World War II

ous countries, with special reference
ternational relations.
nternationalism—liberal and revolu-
he rise of totalitarian doctrines and
Democracy on the defensive.

Professor YATES

DEPARTMENT OF MATHEMATICS

Professors HARBIN *and* SOHON (CHAIRMAN); *Assistant Professor* SCHWEDER.

3, 4. Freshman Mathematics

A course covering Advanced Algebra, Plane Trigonometry and Analytic Geometry.
The subjects considered in the course are variation, inequalities, elementary theory of
equations, determinants; Plane Trigonometry through the identities and the inverse
functions; the straight line, circle and conic sections; the straight line in space, the
plane and quadric surface. Year course, required of all Freshman students not majoring
in the pre-medical sciences.

   3 credits each term   *Professors* HARBIN *and* SCHWEDER

25, 26. Engineering Drawing

A course covering the use of equipment and materials; lettering; geometrical construc-
tion; orthographic projections; auxiliary views; dimensioning; machine elements; working
drawings; intersections, and development of surfaces; technical sketching.

   3 credits each term; 2 lectures, 1 laboratory   *Professor* HARBIN

33, 34. Differential and Integral Calculus

The topics considered in this course are: Differentiation of functions of a single variable,
with applications: Curvature, Theorem of Mean Value with applications; integration of
functions of a single variable; problems in volumes and areas, fluid pressure, center of
gravity, moment of inertia, attraction, etc.; infinite series, expansion of functions, differ-
entiation and integration of functions of several independent variables.

   3 credits each term   *Professor* SCHWEDER

101, 102. Introduction to Higher Algebra

Matrices, linear transformations, invariants, bilinear, quadratic and Hermitian forms,
elementary symmetric functions, invariant factors and elementary divisors.

   3 credits each term   *Professor* SCHWEDER

133. Differential Equations

Introductory notions, equations of the first order and first degree, equations of the
first order and higher degree, singular solutions, applications to geometry and mechanics,
linear equations with constant coefficients, applications.

   3 credits   *Professor* SCHWEDER

161. Vector Algebra

Addition and multiplication of vector quantities with simple applications to geometry
and mechanics, the linear vector functions, formal properties of dyadics, rotations and
strains, affine transformations, reduction of dyadics to canonical form.

   3 credits   *Professor* SOHON

162. The Calculus of Vectors

Differentiation of vectors and dyadics with respect to scalers, geometry of the twisted
curve, applications to kinematics, gradient, divergence, and curl, curvature of surfaces,

line integrals, theorems of Gauss and Stokes, elementary notions on the potential, curvilinear co-ordinates and introduction to Tensor Analysis.

3 credits   Professor SOHON

183. *Astronomy and Celestial Navigation*

The motions of the earth; celestial coordinates; time; the constellations; planetary motions; the tides; the solar system; elementary dead reckoning; the Nautical Almanac; lines of position; corrections to sextant readings; reduction to H.O.211; methods of assumed position; precomputed altitudes for landfall.

4 credits, 3 lectures and 1 laboratory   Professor SOHON

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Major M. S. REICHLEY (CHAIRMAN); *First Lieutenant* T. W. FOSS (ADJUTANT); *Technical Sergeant* MOUNTJOY *and Staff Sergeant* J. LAZARUS.

The R. O. T. C. instructions is in Infantry and covers a Basic Course (Freshman and Sophomore years) in which the enrollment is for a period of four terms. Having enrolled in a course, students are required to complete that course. Basic course students are provided with all necessary uniform clothing and equipment at Government expense, being required to purchase only their textbook, a pair of shoes and distinctive insignia. On May 22, 1943, the advanced course R. O. T. C., previously offered, was suspended until further notice from the War Department.

1. *Basic Course, First Term*

Five hours a week theoretical and practical instruction in Organization of the Army—Military Courtesy and Discipline—School of the Soldier with and without arms—First Aid—Field Sanitation—Personal and Sex Hygiene—Interior Guard Duty—Leadership—Equipment and Clothing—Safeguarding Military Information.

3 credits   Major REICHLEY

2. *Basic Course, Second Term*

Five hours a week theoretical and practical instruction in Leadership—Extended Order Drill—Map and Aerial Photograph Reading—Rifle (Mechanical training) and Rifle Marksmanship.

3 credits   Major REICHLEY

3. *Basic Course, Third Term*

Five hours a week practical and theoretical instruction in Leadership—Concealment and Camouflage—Cover and Movement—Marches and Bivouacs—Patrol Operations—Protection against Carelessness—Scouts, Observers and Messengers—Tent Pitching.

3 credits   Lt. Foss

4. *Basic Course, Fourth Term*

Five hours a week theoretical and practical instruction in Leadership—Application of Military Law—Military Administration—Technique of Rifle Fire—Weapons—Tactical Training and Combat Organization.

3 credits   Major REICHLEY

Associate Professor CAINO (ACTING
LANG.

*A placement examination is given to
school credit in modern languages.
modern language are automatically req*

1. *Elementary French*

The primary aim of this course is to g
early as possible. Fundamentals of g
are based on vocabularies of the read
Dictations.

3 credits

2. *Intermediate French*

Prerequisite: Elementary French or s
brief review of grammar is presented
vocabulary drills are given as French
Readings on French life and culture
reading matter.

3 credits

3. *Advanced French*

This course is a survey of French Liter
Topical discussions are had in French.

3 credits

4. *French Drama*

Prerequisite: Survey of French Literat
read and discussed: CORNEILLE'S *Le Cia
Le Barbier de Saville*, ROMAIN'S *Le do
A French essay is assigned to students

3 credits

1. *Elementary German*

The chief aim of this course is to ena
the fundamentals of grammar and also
of the language. A reader is introduc

3 credits

2. *Intermediate German*

The practical use of grammar and th
sized, while the spoken word also recei

3 credits