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Curricular Requirements

SINCE comparatively few students who enter college during the war can expect to stay more than a few Trimesters at most, the College wishes to help make their brief stay here as *immediately* valuable to them as possible. A number of courses* previously closed to Freshmen are now open to them, and required courses may be postponed. While the many individual cases deserve and receive individual counsel and treatment, a few general suggestions regarding the choice of courses may not be unwelcome to certain groups of Freshmen:

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1. Premedical students will find that their Bowdoin program is based on the composite demands of various Medical Schools, and of the Army and Navy. It includes sufficient Biology, Chemistry, and Physics, but the order in which these Science courses are taken depends on the time at which Freshmen enter, whether in February, June, or October. Detailed information will be given them on arrival.
2. Students physically qualified for commissions in the Armed Forces, and who hope later to be assigned to a college or university for the Army and Navy training programs probably should not confine their selections to English, Mathematics, Physics, and Chemistry, since these subjects are likely to be a part of such programs. Credit towards a Bowdoin degree may be granted for such subjects studied in these training programs. Students, therefore, should at least consider taking other subjects at Bowdoin in order to earn additional credit towards the degree.
3. Students who expect to enter a technical branch of the Armed Forces, or a technical industry, should take Mathematics, and either Chemistry or Physics. *The exigencies of war, however, do not demand that a student try to force himself to study the sciences when nature clearly meant him to study the humanities.*
4. Freshmen whose aptitudes and interests are not in scientific subjects, or those who are not qualified physically for commissions, but are eligible for induction into the Armed Forces, probably should pick their courses much as they would in normal times, and with due regard to the positive requirements for degrees. This certainly should be the procedure of those who are not physically qualified for military service.

* Aeronautics, Astronomy, Economics, Navigation, Philosophy, Psychology, Spanish.

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There follows a statement of curricular requirements that must be met by students who can continue for their degrees.

REQUIRED COURSES

Acceptable English is required in both oral and written work, not only in English courses but in all courses. Any student whose work is unsatisfactory in the mechanical or rudimentary aspects of grammar, diction, and syntax, or in the broader aspects of clear expression, may be reported to the Committee on Remedial English; he then, along with those Sophomores whose work in English 1-2 was below standard, may be required to take a special corrective course, given during the three Trimesters* of the college year. Until he has satisfied the Committee, no student assigned to the course in Remedial English will be recommended for a degree.

All students are required to take certain courses in Physical Education.

FRESHMAN YEAR. All candidates for a degree are required to take:

1. *Hygiene*, and *English* 4 (Public Speaking)
2. *English 1-2.*

   Exemptions from this requirement are made upon the basis of a placement examination given by the Department of English. Freshmen who show unusual competence will be permitted to enroll in certain advanced courses offered by the Department.
3. One modern language: French *or* German.

   A. If the language chosen is offered for admission to college, the requirement may be fulfilled by taking one advanced course, such as *French 3-4* or *German 3-4.*

   B. If the language chosen was not offered for admission to college, the requirement may be fulfilled by taking two year courses in that language.

   C. As a substitute for the above requirement, an especially well trained student may, with the consent of the Dean, take at the beginning of his Freshman year a reading examination in one of these languages and on passing it be exempted from further modern language requirements.

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* The words *Trimester* and *Semester* are used as equivalents in this Catalogue. Both denote a college term of sixteen weeks. For various reasons, it seems well to use at times the pre-war word, *Semester*, for one of the two terms that, in some senses, still make up a "college year." A year course, for instance, is a course continued for two Semesters or Trimesters, i.e., thirty-two weeks.

D. Students who entered college with at least three admission units in one of these languages and two admission units in the other will be excused from further modern language requirements.

No student shall be advanced to Senior standing until he has completed his modern language requirements.

One of the following: *Greek 1-2; 3, 4; Latin A, B; 1, 2; Mathematics A, 1; 1, 2.* All candidates for degrees must take either one year of college Mathematics, or a varying amount of college Greek or Latin, the amount depending on how much of those languages they offer for admission.*

Candidates for the degree of B.S. are required to take *Mathematics A, 1,* or *1, 2.*

One of the following: *Chemistry 1-2, Economics 1, 2; Government 1, 2; History 1, 2; Philosophy 1, 2; Physics 1, 2; Psychology 1, 2; Zoölogy 1, 2;* a second acceptable elective from (4), above.

GENERAL COURSES

Candidates for the degree of A.B. must have completed before graduation two years' work each in groups 1 and 3 below; and one year's work in group 2. Candidates for the degree of B.S. must have completed two years' work each in groups 1 and 2, and one year's work in group 3. The subjects chosen from group 1 must be taken in two different departments.

Economics or Sociology, Government, History, Philosophy.

Astronomy, Biology,† Chemistry, Mathematics,† Physics, Psychology.

* Candidates for the degree of A.B. who presented *four* years of Latin for admission fulfill these requirements by electing *Latin 1, 2;* or *Mathematics A, 1,* or by electing *Greek 1-2* in Freshman year and *Greek 3, 4,* in Sophomore year. Candidates for the degree of A.B. who presented *three* years of Latin for admission fulfill these requirements by electing *Greek 1-2* or *Latin A, B,* in Freshman year and, thereafter or concurrently, completing one of the following five groups of courses: (1) *Latin A, B,* and *Latin 1, 2;* (2) *Latin A, B,* and *Mathematics A, 1,* or *1, 2;* (3) *Greek 1-2, Greek 3, 4,* and *Latin A, B;* (4) *Greek 1-2, Greek 3, 4,* and any other two Greek courses, excepting *Greek 18;* (5) *Greek 1-2, Greek 3, 4,* and *Mathematics A, 1,* or *1, 2.*
Candidates for the degree of B.S. who presented *two* years of Latin for admission, and who wish to transfer to the course leading to the degree of A.B. are required to take *Greek 1-2, Greek 3, 4,* and *either* any two other Greek courses (excepting *Greek 18*) or *Mathematics A, 1,* or *1, 2,*

See footnote on next page.

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3. Comparative Literature, English Literature, French,† G man,† Greek,† Italian,† Latin,† Spanish.†

Required and General Courses should be taken, as far as p sible, before Elective Courses.

ELECTIVE COURSES

G

In order to be eligible for a degree, a candidate must have co pleted thirty-four semester courses, or their equivalent (a y course is equivalent to two semester courses), in addition to H giene, *English 4*, and the required courses in Physical Educati These courses, except those mentioned above under Requi Courses which students must take at the times designated, are elective, but subject to the following regulations:

1. Each student, whether in regular or special standing, is requir to take four full courses each semester in addition to the quired work in Physical Education, Hygiene, and *English 4*.
2. Each regular student is required to take a fifth course duri each semester of the Sophomore year.

MAJORS AND MINORS

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Definitions. A *major* is a subject pursued through six semest courses. A *minor* is a subject pursued through four semester cours in one department, or two semester courses in each of two depa ments.

Each student is required to have completed before graduatic one major and one minor. He must choose his major by the end his Sophomore year, and must submit the courses chosen for th approval of the department in which the major is to be taken. H must also choose a minor at the same time, and must submit it fo advice to the department in which the major is to be taken.

For the duration of the war the major examinations are omitte

The departments in which majors may be elected have desi nated the courses constituting majors as follows:

† The following courses do *not* contribute toward meeting the requiremer in General Courses: *Biology* 9; *Botany*; *French* 1-2, 3-4, 15, 16; *German* 1-2, 3- 5-6, 15, 16, 17, 18; *Greek* 1-2, 17; *Italian* 1-2; *Latin* A, B, 1, 2, 11; *Mathemati* A, 1, 2; *Spanish* 1-2.

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(In the following table a semester course is called a *unit*. A year course is equivalent to two units.)

Biology: Any six units.
Chemistry: Any six units.
Classics: Any six units drawn equally from the departments of Greek and Latin, excepting *Greek* 1-2 and *Latin A, B*.
Economics and Sociology: Any six units.
English: Any six units, excepting *English* 1-2 and 4, but not more than two units may be taken in Composition and Public Speaking.
French: Any six units, excepting *French* 1-2.
German: Any six units, excepting *German* 1-2.
Government: Any six units.
Greek: Any six units, excepting *Greek* 1-2.
History: Any six units.
Latin: Any six units, excepting *Latin A, B*.
Mathematics: Any six units, excepting *Mathematics A*.
Philosophy: Any six units; or any four units and either *Greek* 13, 14, or *Greek* 15, 16.
Physics: Any six units.
Psychology: Any six units.

EXAMINATIONS: The regular examinations of the College are held at the close of each Trimester. An unexcused absence from an examination entails a mark of zero. In the event of illness or other unavoidable cause of absence from examination, the Dean is empowered to suspend the action of this rule.

RANK: The rank of a student in each course is computed on a scale of 10, but is preserved on the college records in the letters A, B, C, D, and E. A signifies a rank from 9 to 10; B, a rank from 8 to 9; C, a rank from 7 to 8; D, a rank from 6 to 7; E, a rank lower than 6, and a condition.

REPORTS OF STANDING: A report of the ranks of each student is sent to his parents or guardian at the close of each Trimester. The report contains a statement of the standing of the student in each of his courses.

REQUIREMENTS FOR DEGREES: In order to be recommended for the degree of Bachelor of Arts or Bachelor of Science, a candidate must have been at least one year in residence at Bowdoin College and have complied with the regulations in regard to courses. He

must, moreover, have attained a grade of C, or higher, in at least half his courses.

DEGREES WITH DISTINCTION: The degree of Bachelor of Arts or Bachelor of Science with distinction is awarded in three grades:

Cum Laude. A candidate is recommended for a degree *cum laude* who has obtained an average grade of B in all courses presented for a degree.

Magna cum Laude. A candidate is recommended for a degree *magna cum laude* who has obtained a grade of A in three-fourths, and B in another eighth, of his courses.

Summa cum Laude. A candidate is recommended for a degree *summa cum laude* who has obtained a grade of A in seven-eighths of his courses. A candidate for a degree *summa cum laude* must have been in residence at Bowdoin for a least three years.

HONORS IN MAJOR SUBJECTS: A department may recommend to the Faculty candidates for honors in that department, but no student shall be so recommended unless he shall have received A's in at least one-half, and B's in the other half of the six courses comprising his major subject. To such students the Faculty may, on recommendation from the department, grant "honors." A department may recommend to the Faculty as candidates for "high honors" or "highest honors" students who have at least met the course requirements as above described and have completed additional work—problems, theses, examinations—as evidence of their originality and initiative.

BOWDOIN-MASSACHUSETTS INSTITUTE OF TECHNOLOGY DEGREES

Students desiring to enter the engineering profession may qualify for the degree of Bachelor of Science from both Bowdoin College and the Massachusetts Institute of Technology by successfully completing three years at Bowdoin, or two years and two summer trimesters, followed by two years at the Institute. The Bowdoin degree will be awarded to such students on notification from the Institute that they have received their degree from the Institute, provided that during their residence at Bowdoin they had satisfied the regular group and language requirements. To be recommended to the Institute under this plan, students must have attained honor grades in their courses in Mathematics and the Natural Sciences. Students wishing to avail themselves of this plan

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Latin

DEAN NIXON AND PROFESSOR MEANS

A. *Ovid.* Fall 1945 Trimester. MR. MEANS.
Readings in the *Metamorphoses.* Study of and practice in the scansion of hexameter verse.

B. *Vergil.* Spring 1946 Trimester. MR. MEANS.
Selections chiefly from the *Aeneid.* Study of and practice in the scansion of hexameter verse.

1. *Selections from Latin Prose.* Fall 1945 Trimester. DEAN NIXON.

2. *Horace, Plautus, Terence.* Spring 1946 Trimester. DEAN NIXON.

3. *Latin Comedy.* Fall 1945 Trimester. DEAN NIXON.
Most of the plays of Plautus and Terence are read in the original and in translation, with special attention to dramatic construction and presentation.
Prerequisite: *Latin* 1, 2.

4. *Latin Satire and Epigram.* Spring 1946 Trimester. DEAN NIXON.
Selections from Juvenal and Martial, with special study of social life in the early Roman Empire.
Prerequisite: *Latin* 1, 2.

[6. *Latin of the Empire and the Middle Ages.*]

[7. *Selected Latin Authors.*]

[8. *Tacitus.*]

[9. *Lucretius.*]

[10. *Horace.*]

[11. *Latin Prose Composition.*]

[12. *Latin Literature.*]

Mathematics

PROFESSORS HAMMOND AND HOLMES, ASSOCIATE PROFESSOR KORGEN, AND MR. CHITTIM

1. *Plane and Spherical Trigonometry.* Fall 1945, and Spring, Summer, and Fall 1946 Trimesters. MESSRS. KORGEN AND CHITTIM.

11. *Analytic Geometry and Calculus.* Fall 1945, and Spring, Summer, and Fall 1946 Trimesters. MESSRS. HOLMES AND CHITTIM.

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Mathematics 1 and 11 satisfy the curricular requirement for Freshmen who do not present trigonometry for admission.

12. *Continuation of Course* 11. Spring and Summer 1946 Trimesters. MESSRS. HAMMOND AND HOLMES.

Elements of analytic geometry and of differential and integral calculus.

Mathematics 11 and 12, 11 and 14, or 11 and 23 satisfy the curricular requirement for Freshmen who present trigonometry for admission.

14. *Elementary Mathematics of Statistics.* Spring 1946 Trimester. MR. KORGEN.

Mathematical and empirical tables; probability; topics from the mathematical theory of statistics, such as measures of dispersion, curve fitting, and statistical correlation.

Students should consider also *Economics* 8.

21. *Analytic Geometry and Calculus.* Fall 1945, and Summer and Fall 1946 Trimesters. MESSRS. HOLMES AND KORGEN.

22. *Continuation of Course* 21. Spring and Summer 1946 Trimesters. MESSRS. HOLMES AND KORGEN.

Analytic geometry of three dimensions; more complete treatment of calculus than *Mathematics* 11 and 12, including Taylor's series and elementary differential equations.

Prerequisite: *Mathematics* 11, 12.

23. *Algebra.* Fall 1945, and Fall 1946 Trimesters. MESSRS. KORGEN AND CHITTIM.

[24. *Continuation of Course* 23.] MR. HOLMES.

Determinants, theory of equations, probability, complex numbers.

Prerequisite: *Mathematics* 11.

31. *Advanced Calculus.* Fall 1945, and Summer and Fall 1946 Trimesters. MESSRS. HOLMES AND KORGEN.

32. *Continuation of Course* 31. Spring and Summer 1946 Trimesters. MESSRS. HOLMES AND KORGEN.

Partial differentiation and multiple integration; infinite series; differential equations.

Prerequisite: *Mathematics* 21, 22.

[33. *Modern Synthetic Geometry.*] MR. HAMMOND.

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[34. *Continuation of Course* 33.] MR. HAMMOND.

Properties of triangles and circles, homothetic transformations, the nine-point circle, Simson line, harmonic section, Menelaus's and Ceva's theorems.

[41. *Mathematical Analysis.*] MR. HOLMES.

[42. *Continuation of Course* 41.] MR. HOLMES.

The material of the course is selected from such topics as the logical foundations of the calculus, functions of a complex variable, elliptic integrals, and calculus of variations.

Prerequisite: *Mathematics* 31, 32, or the consent of the instructor.

[43. *Analytic Geometry.*] MR. HAMMOND.

[44. *Continuation of Course* 43.] MR. HAMMOND.

Homogeneous coördinates, metric and projective treatment of conics and quadrics, general theory of curves, including Plücker's equations, cubic curves, vector methods.

Prerequisite: *Mathematics* 31, 32, or the consent of the instructor.

Philosophy 8 should be considered by advanced students in mathematics.

Music

PROFESSOR TILLOTSON

1. *Musical Literature.* Fall 1945, and Fall 1946 Trimesters.

2. *Continuation of Course* 1. Spring 1946 Trimester.

A survey of the masterpieces of music and their history from plain-song to modernism of the twentieth century. Emphasis is placed upon training in the ability to hear music intelligently, to analyze its principal style and characteristics, and to recognize its content and forms. No previous training in music is required.

3. *Fundamentals of Musicianship and Elementary Harmony.* Fall 1945, and Fall 1946 Trimesters.

4. *Continuation of Course* 3. Spring 1945 Trimester.

A technical and practical course, leading to further studies in harmony and counterpoint. Emphasis is placed upon the