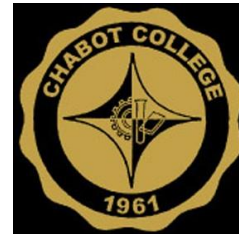


Associate in Science Degree

ENGINEERING

A Path To University TRANSFER



FRESHMAN YEAR	FALL	SPRING
Engineering 25 (Computational Methods for Engineers and Scientists)	(3)	3
Chemistry 1A (General College Chemistry)	5	(5)
Mathematics 1 (Calculus I)	5	(5)
Mathematics 2 (Calculus II)	(5)	5
Physics 4A (General Physics I)	(5)	5

SOPHOMORE	FALL	SPRING
Engineering 36 (Engineering Mechanics - Statics)	3	
Engineering 43 (Electrical Circuits and Devices)		4
Engineering 45 (Materials of Engineering)	3	
Physics 4B (General Physics II)	5	(5)

Plus One (1) Course from the following:

Biology 2A* (Principles of Biology)	5	(5)
Chemistry 1B† (General College Chemistry)	(5)	5
Engineering 10 (Introduction to Engineering)	2	(2)
Engineering 11 (Engineering Design and Analysis)	(2)	2
Engineering 22‡ (Engineering Design Graphics)	3	(3)
Mathematics 4§ (Elementary Differential Equations)	3	(3)
Mathematics 6⁴ (Elementary Linear Algebra)	(3)	3
Physics 4C (General Physics III)	(5)	5

Total..... 40-43

General Education Units for A.S. Degree 19

For specific A.S. General Education courses refer to catalog section on A.S.

Graduation Requirements

General Education Courses (Areas A-E)16

Engineering GE Requirement:3

Complete a minimum of 3 units from:

Business 40 (International Business)

Computer Science 14 (Intro to Structured Programming in C++)

Economics 1 (Principles of Microeconomics)

Communications 1 (Fundamentals of Speech Communications)

Total minimum units required 60

* Bio Engineering, Biomedical Engineering, and Biomechanical Engineering majors should take Biology 2.

† Chemical Engineering and Materials Engineering majors should take Chemistry 1B.

‡ Civil, Industrial, and Mechanical Engineering majors should take Engineering 22.

§ Engineering Science majors, and students interested in applied-mathematics, should take Mathematics 4 and 6.

Typical Engineering Study Plan for a Chabot College Student Intending to Transfer in Aerospace, Civil, Chemical, Electrical, Industrial, or Mechanical Engineering

Year 1	Fall: Course Title	Course No.	Units	Spring: Course Title	Course No.	Units
	Calculus-I	MTH 1	5	Calculus-II	MTH 2	5
	Reading & Composition ⁵	ENGL 1A	3	General Physics I	PHYS 4A	5
	General Chemistry	CHEM 1A	5	Structured Programming in C++ ⁶	CSCI 14	4
	Engineering Design Graphics	ENGR 22	3	Computational Methods	ENGR 25	3
	Introduction to Engineering	ENGR 10	2	Engineering Design & Analysis	ENGR 11	2
	Total Units		18	Total Units		19

Year 2	Fall: Course Title	Course No.	Units	Spring: Course Title	Course No.	Units
	MultiVariable Calculus	MTH 3	5	Elementary Differential Equations	MTH 4	3
	General Physics II	PHYS 4B	5	Elementary Linear Algebra	MTH 6	3
	Engineering Mechanics - Statics	ENGR 36	3	General Physics III ⁷	PHYS 4C	5
	Engineering Materials	ENGR 45	3	Engineering Circuits & Devices	ENGR 43	4
	Critical Think/Write ⁸	ENGL 7	3	American History ⁹	HIST 7	3
	Total Units		19	Total Units		18

Very Easily Moved to Other Terms = ENGR22, CSCI14, HIST7, ENGL7

Print Date/Time = 25-Jan-17/08:00

⁵ Chabot GE Requirement A.1 for English Composition (A.2 for Communication and Analytical-Thinking Satisfied by MTH 1; B for Natural Sciences Satisfied by PHYS 4A)

⁶ Satisfies the Program-based General Education Requirement

⁷ Satisfies A.S. Degree Elective Requirement

⁸ A second English Composition course is required by almost all University of California (UC) Colleges/Schools of Engineering

⁹ Chabot GE Requirement D for Social and Behavioral Sciences