SAMPLE DEGREE PLAN

Bachelor of Science, Engineering Physics

This degree program requires a total of ~~123-127~~ 120 credit hours (CH), including 38 credit hours of the lower-division (LD) UCA Core and 40 credit hours of upper-division (3000- and 4000-level) courses. This sample degree plan demonstrates how a first-time entering freshman with no college credit can earn the degree in eight semesters. The upper-division UCA Core must be met using major, minor, or general elective courses. For general and specific degree requirements, please see the *Undergraduate Bulletin* at https://uca.edu/ubulletin. Consult your academic advisor for appropriate substitutions and additional information.

This degree is offered as an eight-semester degree completion program. Eligible students who follow this degree plan and complete all general and specific degree requirements in the *Undergraduate Bulletin* of the year in which they were admitted will earn this degree in eight semesters. For eligibility requirements, see https://uca.edu/ubulletin/degreeplans/ for more information.

Year 1

Fall — Semester 1		Spring — Semester 2	
Courses	**CH**	**Courses**	**CH**
ENGR 1301 Introduction to Engineering	3	PHYS 1441 University Physics 1	4
MATH 1486 Calculus Preparation[1] or MATH 1496 Calculus I[2]	4	MATH 1496 Calculus I or MATH 1497 Calculus II	4
WRTG 1310 Introduction to College Writing or Other approved Writing Foundation alternative	3	WRTG 1320 Academic Writing & Research or ENGL 1320 Interdisciplinary Writing & Research or Other approved Research and Writing alternative	3
LD UCA Core First Year Seminar	3	CSCI 1470 Computer Science I	4
LD UCA Core Course	3		
Total	**16**	**Total**	**15**

Year 2

Fall — Semester 3		Spring — Semester 4	
Courses	**CH**	**Courses**	**CH**
PHYS 1442 University Physics 2	4	PHYS 2443 University Physics 3	4
MATH 1497 Calculus II or MATH 2471 Calculus III	4	ENGR 2447 Electronics	4
~~CSCI 1480 Computer Science II~~	~~4~~	ENGR 3311 Engineering Dynamics	3
ENGR 2311 Statics	3	MATH 3331 Ordinary Differential Equations	3
+ ENGR 1447	4	MATH 2471 Calculus III (if not taken) or LD UCA Core Course	3-4
Total	**15**	**Total**	**17-18**

[1] MATH 1486 requires an ACT of 21 or higher, or completion of MATH 1390 College Algebra with a grade of C or higher. Students who do not meet the prerequisites for these courses prior to the first semester are ineligible for the eight-semester degree completion program.

[2] MATH 1496 requires an ACT of 27 or higher, or a C or better in MATH 1486, or a C or better in both MATH 1390 and MATH 1392, or the equivalent of these prerequisites.

Year 3

Fall — Semester 5		Spring — Semester 6	
Courses	**CH**	**Courses**	**CH**
PHYS 3360 Electromagnetism 1	3	PHYS 3361 Electromagnetism 2	3
ENGR 3421 Robotics 1	4	ENGR 3410 Microcontrollers	4
ENGR 3447 Microelectronics	4	ENGR 4421 Robotics 2	4
Engineering Elective	4	LD UCA Core Course	3
LD UCA Core Course	3	LD UCA Core Course	3
Total	**18**	**Total**	**17**

Year 4

Fall — Semester 7		Spring — Semester 8	
Courses	**CH**	**Courses**	**CH**
ENGR 4311 Senior Design 1	3	ENGR 4312 Senior Design 2	3
~~Physics Elective~~[3]	~~3~~	Engineering Elective	3
WRID 3310 Technical Writing	3	Engineering Elective	3
LD UCA Core Course	3	General Elective[3]	3
LD UCA Core Course (if needed)	0-3	ENGR 4101 Ethics for Engineers	1
Total	~~12-15~~ 12	**Total**	**13**

[3] Students must choose a Physics Elective and/or a General Elective that meets the Diversity and Critical Inquiry requirements of the upper-division UCA Core.

This sample degree plan has been approved by the Department of Physics, Astronomy, and Engineering in the College of Science and Engineering.

Carl X Frederick — 06/18/25

SIGNED – DEPARTMENT CHAIR / SCHOOL DIRECTOR — DATE

Stephen Addison — 06/18/25

SIGNED – COLLEGE DEAN — DATE