

ELECTRICAL ENGINEERING -- ASSOCIATE OF SCIENCE IN ENGINEERING DEGREE

TRANSFER PROGRAM GC CURRICULUM CODE: 3400

GER REQUIRED CREDITS:..... 32

English Composition	
ENG101 Comp I--Expos Writing	3
<i>-- Min. C grade required.</i>	
Arts and Humanities	
SPC101 Intro to Communication.....	3
GER Humanities Course ⁶	3
Social and Behavioral Sciences	
Two GER Soc & Behav Science Courses ⁶	6
Science	
CHE101 General Chemistry I.....	4*
PHY111 Gen Physics I (Calc-based)	5*
Mathematics	
MAT190 Calculus I.....	4*
Interdisciplinary/Emerging Issues	
CIS170 Computer Science Programming I	4*

CORE COURSES: 32

ENR100 Intro to Engineering Design.....	3*
PHY112 Gen Physics II (Calc-based)	5*
MAT191 Calculus II	4*
MAT192 Calculus III	4*
MAT281 Differential Equations	4*
ENR210 Basic Circuit Theory.....	3*
ENR211 Electrical & Digital Circuit Lab	2*
ENR230 Sci & Engineering Computations....	3*
ENR240 Digital Logic Design	3*
ENR241 Digital Logic Design Lab.....	1*

TOTAL CREDIT HOURS REQUIRED: 64

***ADDITIONAL GRADUATION REQUIREMENTS:**

- **Must achieve a grade of "C" or better in all computer science, engineering, mathematics, and natural/physical science courses.**

RECOMMENDED SEQUENCE

(F) Offered FALL semester only
 (S) Offered SPRING semester only
 (U) Offered SUMMER semester only

FALL

CHE101 General Chemistry	4	(F)
ENR100 Intro to Engineering Design	3	
ENG101 Comp I--Expos Writing.....	3	
MAT190 Calculus	4	(F)
TOTAL	14	

SPRING

CIS170 Comp Science Programming I.....	4	
ENR210 Basic Circuit Theory.....	3	(S)
ENR211 Electrical & Digital Circuit Lab.....	2	(S)
MAT191 Calculus II	4	(S)
SPC101 Intro to Communication	3	
TOTAL	16	

FALL

ENR240 Digital Logic Design	3	(F)
ENR241 Digital Logic Design Lab.....	1	(F)
GER Social Science Course ⁶	3	
MAT192 Calculus III	4	(F)
PHY111 Gen Physics I (Calc-based).....	5	(F)
TOTAL	16	

SPRING

ENR230 Sci & Eng Computations.....	3	(S)
GER Humanities ⁶	3	
GER Social Science ⁶	3	
MAT281 Differential Equations	4	(S)
PHY112 Gen Physics II (Calc-based).....	5	(S)
TOTAL	18	

⁶ GER Courses must be on the Approved General Education Course list (see page 38).

This ASE program is designed for transfer to certain four-year MARYLAND institutions. Students wishing to transfer out-of-state should consult with the Director of Business and Information Technology to develop an educational plan.