

## ELECTRICAL ENGINEERING ABET/CURRICULUM CHECKLIST

(4/2/2001)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Approval: \_\_\_\_\_

This should be updated each semester in Junior and Senior years.  
By the final semester, Seniors must have approved copy in file.

1. First & Second Year Program Requirements \_\_\_\_\_  
(Math, Phys., Chem., ENGR E1102, ELEN E1201, COMS W1007  
Phys. Ed., English, Music/Art, Econ., Humanities/Civ.)

## 2. Core Required EE Courses

COURSE	GRADE	COURSE	GRADE
ELEN E3201 Circ. Anal.	_____	ELEN E3401 Electromag.	_____
ELEN E3301 Elec. Circ.	_____	ELEN E3106 Solid State	_____
ELEN E3041 EE Lab I	_____	COMS E313X Data Struc.	_____
ELEN E3042 EE Lab II	_____	MSAE E3111 Thermo.	_____
ELEN E3043 EE Lab III	_____	AMPA E3101 App. Math I	_____
ELEN E3202 Sig. & Sys. I	_____	(or MATH V2010)	
ELEN E3203 Sig. & Sys. II	_____	SIEO W3658 Probability	_____
ELEN E3910 Dig. Sys.	_____	(or SIEO W4105)	
(or COMS W3823 & W3824)			

3. GROUP B COURSE: (ELEN E3940, ELEN E3044, ELEN E4332, EECS E4340,  
or ELEN E3998 with appropriate project). Must be taken near  
end of program and include capstone design project.

COURSE: \_\_\_\_\_ Approval as group B: \_\_\_\_\_

## 4. TWO EE TECHNICAL ELECTIVES (6 points)

- \* Any 3000+ level EE Dept. listed course except ELEN E3000,  
ELEN E3910, EEJR E4901, and courses used for #1-3 above are OK.

COURSE 1: \_\_\_\_\_ COURSE 2: \_\_\_\_\_

## 5. ONE "ENGINEERING TOPICS" TECH. ELECTIVE (3 points)

- \* No course used for #1-4 above can be used again here - all  
other courses eligible for #4 above are also OK for #5.  
\* Any 3000+ level CS Dept. listed course except for COMS W313X,  
COMS W3203, COMS W3823, COMS W3101, COMS W4400, and COMS W4405.  
\* IEOR E4004, IEOR E4007, and IEOR E4106 are all OK.  
\* Most 3000+ level technical courses from other engineering  
departments are acceptable, with adviser approval, as long as  
they do not substantially overlap with courses used for #1-4.

COURSE: \_\_\_\_\_ Approval if needed: \_\_\_\_\_

## 6. ONE ADDITIONAL TECH. ELECTIVE (3 points)

- \* No course used for #1-5 above can be used again here - all  
other courses eligible for #5 above are also OK for #6.  
\* Additional courses that are OK to use for #6 are COMS W3203,  
APMA E3102, APMA E4001, APMA E4101, APMA E4200, APMA E4204,  
MATH V3028, MATH W4032, MATH W4033, MATH V4041, MATH W4061,  
SIEO W3602 (only 2 points), and STAT W4107.  
\* Other technical courses not listed here need adviser approval.

COURSE: \_\_\_\_\_ Approval if needed: \_\_\_\_\_

7. Non-Technical Courses: 27 pts. (incl. 16 OK for ABET) \_\_\_\_\_  
(requirement administered by Class Deans, details in  
bulletin and at <http://www.seas.columbia.edu>)

8. Total Credits: 128 (Minimum 60 at Columbia): \_\_\_\_\_

9. GPA Requirement (2.0 Minimum): \_\_\_\_\_

## ELECTRICAL ENGINEERING ABET/CURRICULUM SUMMARY

(4/2/2001)

## ABET - BASIC MATH &amp; SCIENCE

MATH V1105	4.0
MATH V1106	4.0
MATH V1205	4.0
MATH E1210	3.0
PHYS C1401	3.0
PHYS C1402	3.0
PHYS C1403	3.0
PHYS C1494	3.0
CHEM C1403	3.0
APMA E3101	3.0
SIEO W3658	2.5
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35.5	>= 32 MINIMUM

## ABET - ENGINEERING TOPICS

ELEN E3041	2.0
ELEN E3042	2.0
ELEN E3043	2.0
ELEN E3106	3.5
ELEN E3201	3.5
ELEN E3202	3.5
ELEN E3301	3.0
ELEN E3203	3.0
ELEN E3401	4.0
ELEN E3910	3.0
MSAE E3111	3.0
COMS W313X	3.0+
SIEO W3658	0.5
GROUP B	3.0
GROUP C	9.0+
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48.0+	>= 48 MINIMUM

## ABET GENERAL EDUCATION

Non-techs	27.0	>= 16 MINIMUM
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## OTHER COURSES

ENGR E1102	2.0	- xfer & 3-2 students should have equiv. experience
ELEN E1201	3.0	- xfer & 3-2 students should have equiv. experience
COMS W1007	3.0	
PHED C100X	2.0	

## ABET TOPICS:

* Probability & Statistics:	SIEO W3658	(or advanced substitutes)
* Differential Equations:	MATH E1210	
* Computer Science:	COMS W1007	(or substitutes)
* Linear Algebra:	APMA E3101	(or substitutes)
* Complex Variables:	MATH & EE Core Courses	
* Discrete Math:	part of SIEO W3658 / part of CS W313X	