M. Eng. Degree Planner Erik Grindheim

Major code: EC84 (M.Eng)
Electrical & Computer Engineer Graduate Division, ECE

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	FA 06	WI 07	SP07	FA 07	WI 08
	166	123		164	
	254	251 AN	251BN	251 CN	(258A)
		265A	265 B	251 DN	264A
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ECE 166 Microwave Circuits & Systems ECE 164 Analog integrated Circuit Design Antenna Systems Engineering ECE 123

Prof. Electives

Spring 2007 Courses:

107 - Electromagnetism 153 - Probability & Random Processes for Engineers 156 - Sensor Networks 163 - Electronic Circuits & Systems 171A - Linear Control System Theory

ECE Graduate Student Affairs Engineering Building I, 2nd Floor Phone: (858) 822-2513

Email: ecegradaffairs@ece.ucsd.edu

Master of Engineering (M.Eng.) Degree Planner

Focus Requirement (at least 20 units)

- Five closely related graduate courses in ECE/CSE
- Must be selected from one of the focus groups listed below

E	CE 251 AN
E	CE 2518N
E	CE 251CN
E	CE 251 DN
1	CCE 254

Technical Electives (8 units)

Any graduate courses in ECE,
 CSE, Math, or Physics

ECE 258A ECE 264A

- Four units may be either ECE 298 (Independent Study), or ECE 299 (Research)
- Other technical courses may be selected with the approval of the faculty advisor and the ECE Graduate Affairs Committee
 Professional Electives (12 units)

Breadth Requirement (at least 8 units)

 Graduate courses in ECE/CSE that are distinctly different from one of the other focus groups ECE265 A ECE265 B

· See possible choices below

* (see below)

ECE 166 ECE 164

Focus 1: Applied Physics

(Applied Optics and Photonics; Electronic Devices and Materials)

Curriculum Advisor:	S. Radic r	adic@ece.ucsd.edu E	BUI 3404	
Curriculum Advisor:	V. Lomakin	vitaliy@ece.ucsd.edu	EBUI 4606	
Applied Electromagn	netic Theory	ECE 222A-B-C		
Solid State Electronics		ECE 230A-B-C		
Semiconductors		ECE 236A-B-C-D		
Materials Science		ECE 238	А-В	
Materials Science		MS 201A	-B-C	
Optics		ECE 240	A-B-C	
Optics		ECE 241	A-B-C	

Focus 3: Electronic Circuits and Systems

(Computer Engineering; Electronic Circuits and Systems)

Curriculum Advisor (ECS):	L. Larson	larson@ece.ucsd.edu	EBUI 5607
Curriculum Advisor (ECS):	I. Galton	galton@ece.ucsd.edu	EBUI 5606
Curriculum Advisor (CE):	C. Schurgers	curts@ece.ucsd.edu	EBUI 4405
Curriculum Advisor (CE):	K. Yun	kyy@ece.ucsd.edu	EBUI 4402
Applied Electromagnetic T	heory	ECE 222A-B-	С
Solid State Electronics	ECE 230A-B-	c	
Semiconductor Heterostru	ECE 236A-B-	c	
Random Processes		ECE 250	
Digital Signal Processing I	anks & ECE 251 AN-	BN-CN-DN	
Wavelets, Array Processi	ng		
VLSI Circuits		ECE 260A-B-	c
Analog IC Design	ECE 264A-B-	ECE 264A-B-C-D	
Communication Circuit De	ECE 265A-B		
Computer Architecture	CSE 240A, 24	40B	
Computer Aided Design	CSE 242A, 24	43A	

Focus 2: Communications and Signal Analysis

(Communications Theory and Systems; Signal and Image Processing)

Curriculum Advisor (CTS): R. Lugannani lug@ece.ucsd.edu EBUI 4801 Curriculum Advisor (SIP): P. Cosman pcosman@ece.ucsd.edu EBUI 6407

Random Processes	ECE 250
Digital Signal Processing	ECE 251AN-BN-CN-DN
Speech Compression and Recognition	ECE 252A-B
Digital Images Analysis	ECE 253A-B
Detection Theory	ECE 254
Information Theory	ECE 255AN
Source Coding I and II	ECE 255BN-CN
Time Series Analysis and Applications	ECE 256A-B
Wireless Communications	ECE 257A-B
Digital Communications	ECE 258A-B
Channel Coding	ECE 259AN-BN-CN
Parameter Estimation	ECE 275A-B
Special Topics in Robotics and Control	ECE 285
Systems (offerings vary annually)	

Professional Electives (possible choices):

 Managerial Economics (IR/PS)
 IRCO 401

 Accounting (IR/PS)
 IRCO 420

 Finance (IR/PS)
 IRCO 421

- Any ECE/CSE upper division undergraduate courses in preparation for further graduate level work. * (see below)
- Any ECE/CSE graduate courses to provide additional breadth or depth in one or more areas.
- Courses outside of ECE or CSE must be approved by a faculty advisor

*IMPORTANT NOTE: Only a maximum total of 12 units from upper division undergraduate courses can be used towards the degree.

This form is to help you design your degree plan. You should consult with your advisor or curriculum advisor or another ECE faculty member at least once per quarter and have this approved before finalizing any course of action.

Upon approval, this form must be submitted to the ECE Graduate Student Affairs office in EBUI, Second Floor

Advisor's Signature

GRINDHEIM

January/11/2007

Date

Student Name

MASTER OF ENGINEERING

Salient features of the Master of Engineering (M. Eng.) program include the following:

- √ it can be completed in four quarters at full-time or eight quarters at half time;
- ✓ it does not require a thesis, a research project, or a comprehensive exam; and
- ✓ it has an option of three courses in business, management, and finance.

Course Requirements:

- The Focus Requirement: The course selection must include at least twenty (20) units / five (5) quarter courses from within one of the focus areas. In some cases it may be appropriate to select five closely related courses from two of the focus areas. Such cases must be approved by a faculty adviser and the ECE Graduate Affairs Committee.
- The Breadth Requirement: The minimum breadth requirement is eight (8) units / two (2) quarter courses of ECE/CSE graduate courses selected from among the courses within the focus areas, in an area distinctly different from that of the focus requirement.
- Technical Electives: Two (2) technical electives may be any graduate courses in ECE, CSE, Physics, or Mathematics. Other technical courses may be selected with the approval of the faculty adviser and the ECE Graduate Affairs Committee. Technical electives may include a maximum of four units of ECE 298 (Independent Study), or ECE 299 (Research).
- Professional Electives: The three (3) professional electives may be used in several ways:
 NOTE: Use of other courses to satisfy the Professional Elective requirement must be approved by the faculty adviser.
 - i. for the IP/Core 401, 420, 421 series in business, management, and finance:
 - ii. for upper-division undergraduate technical courses specified as prerequisites for graduate-level focus, breadth, or technical elective courses taken to satisfy the M. Eng. degree requirements; or
 - iii. for additional graduate technical electives.

Other Requirements:

- The forty-eight (48) units of required course work must be taken for a letter grade (A-F), except for ECE 298 or 299, for which only S/U grades are allowed. Courses for which a D or F is received may not be counted.
- You must have a GPA equivalent to 3.0 or above in upper division and graduate course work, with a total of no more than eight units of "F" and/or "U" grades.
- The minimum residence requirement is three (3) quarters.