NAVAL POSTGRADUATE SCHOOL
Department of Electrical and Computer Engineering

Checklist for BSEE Degree Equivalence

Officer name: _____

Month/year enrolled: _____

Institutions attended	Dates	Degree

I certify that the information contained on this form is correct.

_____
Officer–student

We certify that this student has met the minimum requirements for a BSEE equivalence and is therefore admitted into the advanced–level program leading to the MSEE degree.

BSEE satisfied by BSEE degree/BSEE equivalence Date:_____

_____
Academic Associate

_____
ECE Chairman

_____
Curriculum Officer

Detailed BSEE Checklist

I. Required courses (Please fill in the course number):

1. A course in calculus–based Physics: _____
2. A course in Chemistry: _____
3. A second course in either Physics or Chemistry that built on the course in part 1 or 2: _____

II. Mathematics (minimum of 24 quarter credit–hours or 16 semester credit–hours):

	NPS Course	Other University Course number	Qtr Credits
Matrix Algebra	MA 1042 or MA 1043	_____	2
Calculus (entrance requirement)	MA 1117 & MA 1118	_____	12
Logic, Sets and Functions	MA 2025	_____	4.5
Vector Analysis	MA 2049 or MA 2051	_____	3
Differential Equations	MA 2121	_____	4
Probability	OS 2102	_____	4.5
Partial Differential Equations	MA 3132	_____	4
Numerical Analysis	MA 3232	_____	4.5
Discrete Mathematics & Automata Theory	MA 3026	_____	5
_____	_____	_____	_____
_____	_____	_____	_____
		TOTAL	_____

III. Basic Sciences: (minimum of 24 quarter credit–hours or 16 semester credit–hours):

	NPS Course	Other University Course number	Qtr Credits
Physics (entrance requirement)	PH 1121 & PH 1322	_____	10
Chemistry	_____	_____	6
Astronomy	_____	_____	_____
Biology	_____	_____	_____
Geology	_____	_____	_____
Meteorology	_____	_____	_____
Oceanography	_____	_____	_____
_____	_____	_____	_____
		TOTAL	_____

Minor Revisions: 13 September 1994

IV. Engineering Sciences: (minimum of 48 quarter credit–hours or 32 semester credit–hours of which at least 36 quarter credit-hours must be electrical engineering or equivalent):

	NPS Course	Other University Course number	Qtr Credits
a. Circuits and Electronics			
*Introduction to MATLAB	EC 1010	_____	0.5
*Introduction to Circuit Analysis	EC 2100	_____	4
*Advanced Circuit Analysis	EC 2110	_____	
*Introduction to Electronics Engineering	EC 2200	_____	2.5
*Advanced Electronics Engineering	EC 3200	_____	2
b. Computer Engineering			
*Digital Logic Circuits	EC 2820	_____	2
*Intro to Microprocessors	EC 2840	_____	2
*Microprocessor-based System Design	EC 3800	_____	1.5
c. Systems, Communications, & Control			
*Control Theory	EC 2300	_____	2
*Discrete Signals & Systems	EC 2400	_____	2.5
Analysis of Signals & Systems	EC 2410	_____	2.5
*Linear Systems	EC 2320	_____	2.5
*Communications Systems	EC 2500	_____	3
*Prob. Analysis of Signals & Systems	EC 2010	_____	3
d. Electromagnetics			
Electromagnetic Fields and Waves	EC 2600	_____	4
*Electromagnetic Engineering	EC 2610	_____	2.5
e. Other Engineering Science Courses (at least one non–EE course is required).			
Mechanics of Solids	ME 2601	_____	4
Thermodynamics	ME 2101	_____	4.5
Fluid Mechanics	ME 2201	_____	4
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
		TOTAL	_____

* Indicates a course whose credits are divided between Engineering Science and Engineering Design.

Minor Revisions: 15 May 1997

V. Engineering Design: (minimum of 24 quarter credit–hours or 16 semester credit–hours of which at least 18 quarter credit-hours must be electrical engineering or equivalent):

	NPS Course	Other University Course number	Qtr Credits
a. An integrated design experience at an advanced level (Required)			
Applied Electronics	EC 2220	_____	4
*Microprocessor–based System Design	EC 3800	_____	2.5
Design Project in ECE	EC 2990	_____	4
b. Circuits & Electronics			
*Introduction to MATLAB	EC 1010	_____	1
*Introduction to Circuit Analysis	EC 2100	_____	1
*Advanced Circuit Analysis	EC 2110	_____	
*Introduction to Electronics Engineering	EC 2200	_____	2
*Advanced Electronics Engineering	EC 3200	_____	2
c. Computer Engineering			
*Digital Logic Circuits	EC 2820	_____	2
*Intro to Microprocessors	EC 2840	_____	2
d. Systems, Communications, & Control			
*Control Theory	EC 2300	_____	2
*Discrete Signals & Systems	EC 2400	_____	1
*Analysis of Signals & Systems	EC 2410	_____	1
*Linear Systems	EC 2320	_____	1
*Communications Systems	EC 2500	_____	1
*Prob. Analysis of Signals & Systems	EC 2010	_____	0.5
e. Electromagnetics			
*Transmission Lines	EC 2610	_____	1
f. Other Engineering Design Courses			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
		TOTAL	_____

* Indicates a course whose credits are divided between Engineering Science and Engineering Design.

Minor Revisions: 15 May 1997

VI. Humanities and Social Sciences (minimum of 24 quarter credit–hours or 16 semester credit–hours):

Subjects	Qtr Credits
TOTAL	

File: handbook.ltx
Requirements set: 1 March 1989
Minor revisions: 18 January 1996
Format updated: 11 January 1993