

Guidelines for MS-Plan of Work (POW) Worksheet

A worksheet has been created to help students see how their coursework will meet the MSEE and MSCPE degree requirements. It is based on the requirements listed in the ECE Graduate Handbook, which are included in an abbreviated format below. An example of how to use this worksheet, along with a blank worksheet that students can use, can be found on the following pages.

I. Minimum MSEE/MSCE Degree Requirements:

- a) The MS Plan of Work must have at least 31 credit hours.
- b) ECE 600 is a mandatory 1 credit hour course for EE/CPE graduate students. This requirement will be waived for students with a previous degree from NC State.
- c) Complete at least 21 credit hours of ECE courses: 18 credit hours must be graded and 3 credit hours of ECE 633, 634, or 695 may be taken for credit only (S/U).
- d) For MS non-thesis (Option B) students, a maximum of three credit hours of ECE 633 or 634 (taken for credit only) may be included on the Option B Plan of Work. ECE 695 cannot be included on the Option B Plan of Work.
- e) For MS thesis students, a maximum of nine credit hours may be taken for credit only (S/U) and included on the Plan of Work: three credit hours of ECE 633 or 634 and six credit hours of ECE 695.

II. MSEE/MSCE Plan of Work Requirements:

The department requires the following to be included in the Plan of Work:

- a) Major: Five courses must be in the student's major (EE or CPE). The courses with an EE/CPE designation can count towards either major.
- b) Depth: One 700-level ECE courses (minimum of three credit hours) must be in the student's major (EE or CPE). This requirement *cannot* be met with *non-ECE* 700-level courses.
- c) Breadth: Three ECE courses, each in a different specialty.

Note: One course can meet multiple requirements.

III. Non-ECE Courses:

A maximum of 9 credit hours of non-ECE courses may be included in the Plan of Work. Of these nine credit hours, a maximum of three credit hours may be 400 level, while the remaining credit hours must be graduate non-ECE courses (500 or 700 level). The courses should be in a related technical area and follow these guidelines:

- a) Graduate level courses in CSC, MA, STAT, PHYS, CH, or any other engineering department.
- b) MBA and BUS courses that are listed for the [CNE program](#).

Example of how to complete MS-EE or MS-CPE Plan of Work (POW) Worksheet

MS courses (31 credit hours)	
1	ECE 600 (1 credit hour)
2	ECE 506
3	ECE 521
4	ECE 570
5	ECE 520
6	ECE 745
7	ECE 566
8	ECE 546
9	ECE 561
10	CSC 501
11	MBA 554

Optional

Non-ECE: maximum of 9 credit hours	
1	CSC 501
2	MBA 554
3	

DEGREE REQUIREMENTS

Breadth(3): at least 1 course in 3 different specialties

Course Computer Engineering

ECE 506	COMP ARCH
ECE 570	NETWORKING
ECE 566	SOFTWARE
	VLSI SYSTEMS

Course Electrical Engineering

	CIRCUITS
	COMMUNICATIONS
	MW CKTS/APP EM
	EPM
	PWR ELEC
	PWR SYS
	ROBOTICS/MECH/CONTROL INSTR
	SIGNAL PROC/COMP INTEL

Major (5): five courses in major

EE or CPE	Courses
1	ECE 506
2	ECE 521
3	ECE 570
4	ECE 520
5	ECE 756

Depth(1): one 700-level ECE course in major

EE or CPE	ECE 745
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MS courses (31 credit hours)	
1	ECE 600 (1 credit hour)
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

Optional

Non-ECE: maximum of 9 credit hours	
1	
2	
3	

DEGREE REQUIREMENTS

Breadth(3): at least 1 course in 3 different specialties

Course Computer Engineering

	COMP ARCH
	NETWORKING
	SOFTWARE
	VLSI SYSTEMS

Course Electrical Engineering

	CIRCUITS
	COMMUNICATIONS
	MW CKTS/APP EM
	EPM
	PWR ELEC
	PWR SYS
	ROBOTICS/MECH/CONTROL INSTR
	SIGNAL PROC/COMP INTEL

Major (5): five courses in major

EE or CPE	Courses
1	
2	
3	
4	
5	

Depth(1): one 700-level ECE course in major

EE	CPE