

COMPUTER ENGINEERING MASTER OF SCIENCE DEGREE PROGRAM CHECKLIST
for students starting in (or after) Spring 2017
COLUMBIA UNIVERSITY

Student: _____
 (please print)

UNI: _____

Courses **Pts.**

CHECKLIST

(Core courses)

1. _____ 30 points of credit
2. _____ 15 points core Computer Engineering (see back)
3. _____ 12 points 6000 level EE or CS courses (including joint courses)
4. _____ Advisor approval for all courses from outside SEAS
5. _____ no credit for 3000 or lower level courses
6. _____ 2.7 GPA minimum

(Other courses, approved by an advisor)

7. _____ no more than 9 points research (e.g. ELEN E4998, ELEN E6001, COMS W4901)
8. _____ no more than 3 points of APPROVED nontechnical courses (including courses in SEAS with significant nontechnical content)
9. _____ completion within 5 years
10. _____ no grade of P or R
11. _____ no credit for courses with material typically found in undergraduate engineering programs such as a 4000-level course in Probability

Total points:

Approved:

_____ for the Department

_____ for the Dean

_____ Date:

_____ Date:

Note: If some courses listed were taken during the BS, a copy of an approved BS excess sheet must be attached.

Core Computer Engineering Courses- for students starting in (or after) Spring 2017*

CSEE	W4119	Computer networks	EECS	E4951	Wireless Networks & Systems
CSEE	W4140	Networking laboratory	CSEE	E6180	Modeling and performance evaluation
EECS	E4321	Digital VLSI circuits	EECS	E6321	Advanced digital electronic circuits
EECS	E4750	Hybrid Computing for Signal & Data Processing	EECS	E6322	VLSI Hardware Architecture for Signal Processing & Machine Learning
EECS	E4764	Internet of Things – Intelligent & Connected Systems	EECS	E6765	Internet of Things - Systems & Physical Data Analytics
CSEE	W4823	Advanced logic design	CSEE	E6824	Parallel computer architecture
CSEE	W4824	Computer architecture	CSEE	E6861	Computer-aided design of digital systems
CSEE	W4840	Embedded systems	CSEE	E6863	Formal Verification of Hardware & Software Systems
CSEE	W4868	System-on-chip Platforms	CSEE	E6868	Embedded scalable platforms

*a few additional courses that can be considered core may be announced each year depending on offerings