

**COMPUTER ENGINEERING MASTER OF SCIENCE DEGREE PROGRAM CHECKLIST, Updated May, 2019
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 MS Computer Engineering Courses as of 2019*

CSEE	W4119	Computer networks	CSEE	E6180	Modeling and performance evaluation
CSEE	W4140	Networking laboratory	EECS	E6321	Advanced digital electronic circuits
EECS	E4321	Digital VLSI circuits	EECS	E6322	VLSI Hardware Architecture for Signal
EECS	E4750	Hybrid Computing for Signal & Data Processing	COMS	E6424	Hardware Security
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
EECS	E4951	Wireless Networks & Systems			

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

Updated May, 2019