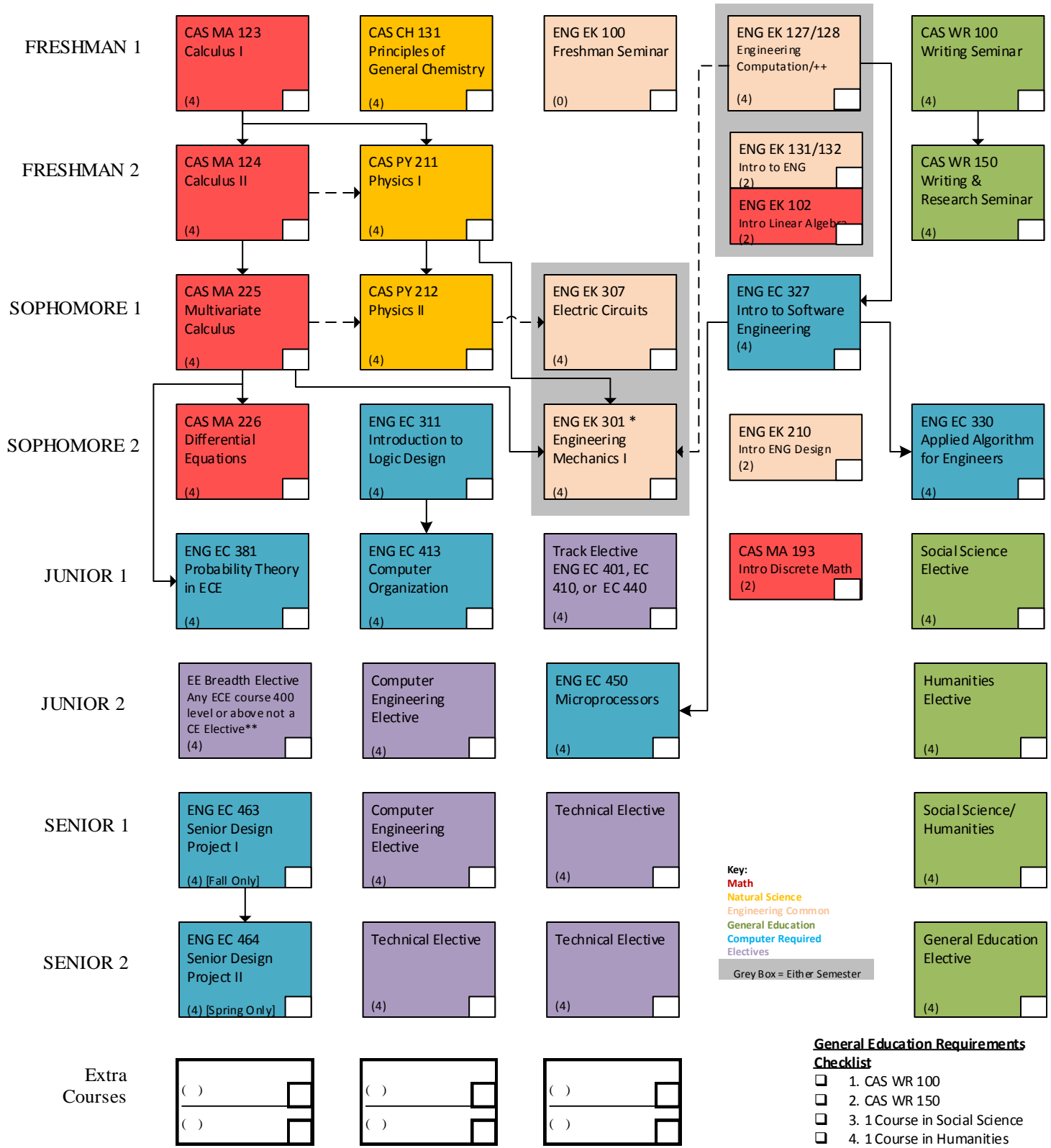


NAME: _____ **U.I.D.#** U _____ **DATE:** _____



General Education Requirements Checklist

- 1. CAS WR 100
- 2. CAS WR 150
- 3. 1 Course in Social Science
- 4. 1 Course in Humanities
- 5. 1 Course SS or HUM
- 6. 1 Course General Education Elective
- 7. Total of at least 24 credits

Prereq. =
 Coreq. =

* Students who plan to study abroad in Sophomore 2 should take EK 301 in Sophomore 1
 ** See note on reverse
 GRADUATION REQUIREMENT: 132 credits
 ENG Credit Requirement: 48 credits/Upper Division Program courses completed at Boston University

REQUIREMENTS

Students majoring in Computer Engineering are required to complete a minimum of 132 credits as detailed on the Program Planning Sheet on the other side of this form.

General Education Courses: For a list of specific courses that satisfy the Social Science, Humanities, and the General Education Elective, please go to the College of Engineering Undergraduate Requirements website at: <http://www.bu.edu/eng/current-students/ugrad/requirements/>.

TRACK ELECTIVE

Computer Engineering majors complete 1 Track Elective from the following list:

ENG EC 401	Signals and Systems
ENG EC 410	Introduction to Electronics
ENG EC 440	Introduction to Operating Systems

COMPUTER ENGINEERING ELECTIVE

Computer Engineering majors complete 2 CE Elective courses from the following list:

ENG EC 440	Introduction to Operating Systems	ENG EC 521	CyberSecurity	ENG EC 571	Digital VLSI Circuit Design
ENG EC 441	Introduction to Computer Networking	ENG EC 527	High Perf Programng with Multicore & GPU's	CAS CS 320	Concepts of Programming Languages
ENG EC 447	Software Design	ENG EC 528	Cloud Computing	CAS CS 350	Fundamentals of Computing Systems
ENG EC 504	Advanced Data Structures	ENG EC 535	Introduction to Embedded Systems	CAS CS 410	Advanced Software Systems
ENG EC 512	Enterprise Client-Server Softwr Sys Des	ENG EC 541	Computer Communications Networks	CAS CS 411	Software Engineering
ENG EC 513	Computer Architecture	ENG EC 544	Networking the Physical World	Any CAS CS 500-level course (except CAS CS 591-by Petition only)	
		ENG EC 551	Advanced Digital Design with Verilog & FPGA		

EE BREADTH ELECTIVE Computer Engineering majors complete 1 EE Breadth Elective course :

Any ENG EC course 400-level or higher that is not on the above Computer Engineering Elective list, Directed Studies (ENG EC 451) , 600-level courses, and Special Topics courses (ENG EC 500 and ENG EC 700).

Directed Studies (ENG EC451), Special Topics Courses (ENG EC 500), and all ENG EC 700-level courses may satisfy the EE Breadth requirement by petition only.

TECHNICAL ELECTIVES (see **Notes** below)

Computer Engineering majors complete 3 Technical Elective courses:

ENG BE 209 and any **ENG EC, BE, EK** or **ME** course at the 300-level or above, except for 600-level courses are acceptable as Technical Electives.

Pre-Approved Courses Outside Engineering that fulfill a Technical Elective:

CAS AS 414	Solar and Space Physics	CAS MA 528	Introduction to Modern Geometry	CAS PY 451	Quantum Physics 1
CAS CS 440	Intro to Artificial Intelligence	CAS MA 531	Computability and Logic	CAS PY 452	Quantum Physics 2
CAS CS 480	Introduction to Computer Graphics	CAS MA 541	Modern Algebra 1	QST SI 480	The Business of Technology Innovation
CAS CS 585	Image and Video Computing	CAS MA 583	Introduction to Stochastic Processes	QST SI 482	Technology and its Commercialization
CAS MA 511	Introduction to Analysis I	CAS PY 313	Waves and Modern Physics		

DEGREE ENHANCEMENTS

CONCENTRATIONS

Students may choose to add a Concentration in **Energy Technologies, Nanotechnology** or **Technology Innovation**. Students completing a Minor in Mechanical Engineering may choose to add a concentration in **Aerospace Engineering**. A concentration requires 4 courses which can usually be used to satisfy courses within the major. Hence, a concentration can usually be completed without additional coursework. More information on concentrations and the specific requirements for each can be found at <http://www.bu.edu/eng/academics/programs/concentrations/>.

MINORS

Students may choose to add a minor in any one of the other degree programs or divisions (**Materials Science & Engineering** or **Systems Engineering**) within the College of Engineering. A minor consists of 5 courses, 2 of which may also be used to satisfy requirements for the major. Completing a Minor will add a minimum of 12 credits to the total for the degree. More information on minors and the specific requirements for each can at <http://www.bu.edu/eng/academics/programs/minors/>. Students may also pursue minors in other Colleges at Boston University. For more information, please contact the College of the minor.

DOUBLE MAJORS

Students may earn two engineering BS degrees. Double majors require a minimum of 168 credits and students must fulfill the requirements for each of the degree programs.

See <http://www.bu.edu/eng/academics/special-programs/> for more details.

OTHER WAYS TO ENHANCE YOUR DEGREE

Students have several additional options available to them including **study abroad**, **research**, and **co-op/internship** opportunities. For more information on these programs, please visit the College of Engineering Undergraduate website: <http://www.bu.edu/eng/academics/>.

Notes:

For the following 8 sets of courses, only 1 course can be taken for credit in each set due to the overlap of material:

- (1) ENG ME 305, ENG BE 420
- (2) ENG ME 403, ENG ME 404, ENG BE 402, ENG EC 402
- (3) ENG ME 303, ENG BE 436
- (4) ENG ME 441, ENG ME 515
- (5) ENG ME 501, ENG EC 501
- (6) ENG EK 102, CAS MA 142, CAS MA 242
- (7) ENG BE 401, ENG EC 401
- (8) ENG ME 366, ENG EC 381, ENG BE 200, ENG EK 500