Master of Science Program Planning Sheet

Electrical and Computer Engineering

Department of Electrical and Computer Engineering

MATRICULATION YEAR FALL 2021

Student's Name (In Print):_____ **BU ID**_____

Advisor Name (in Print):_____

Students are required to earn a total of 32 credits (8 courses) at the graduate level (500-level and above) with grades of C or better in order to graduate. Students must achieve a degree GPA >=3.0 for the 32 credits used toward the degree. If cumulative GPA drops below 3.0, the student will be put on academic probation.

PROGRAM REQUIREMENTS

1. **SOFTWARE REQUIREMENT (4 credits)**

   ☐ EC602: Design by Software in ECE*** See note below**

   ☐ Check if exempt from EC602: Design by Software in ECE**.**

   Department confirmation of exemption: _____

   Students exempted from EC602 must replace it with an ECE graduate-level course (EC500-level or above).

   List the course number and title here: _____

2. **PRACTICUM REQUIREMENT (4 credits)** – Please select one: EC601: Product

   ☐ EC601: Product Design in ECE*** See note below**

   ☐ Check if exempt from EC601: Product Design in ECE.

   Department confirmation of exemption: _____

   Students who place out of EC601 must then select one of the following below:

   ☐ EC953: MS Project

   ☐ EC954: MS Thesis

3. **ECE GRADUATE ELECTIVES (16 credits)** - Please list your 16 credits (4 courses) from ECE graduate courses at the 500-level or above (*excluding* EC601 and EC602). ***Include course numbers and complete course titles.***

   _____

   _____

   _____

   _____

4. **GENERAL ELECTIVES (8 credits)** – Students must take 8 credits (2 courses) of general graduate electives (not counted for their ECE electives). General graduate electives include College of Engineering graduate-level courses *except* courses utilized to meet other requirements. Graduate courses outside the college must be approved by the department MS committee; those listed on the back of this sheet have already been pre-approved (*excluding* EC601 and EC602). Petitions are required for seeking approvals for courses that are not pre-approved. **Petitions must be submitted in the semester of the course enrollment by the petition deadline (first Thursday of a semester). No petition is accepted for committee review after the deadline.** ***Include course numbers and complete course titles.***

   _____

   _____

Student Signature_____ **Advisor's Signature**_____

Departmental Signature_____

***Note:** In order to waive or be exempt from this requirement, students must pass a placement exam typically given at the beginning of the academic year.

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Electives

(See the College of Engineering Bulletin for course descriptions)

The following subdivisions are provided for informational purposes only to guide you in choosing electives according to your interests.

Bio-ECE and Digital Health
EC505 EC516 EC520 EC555 EC571 EC580 EC582 EC716 EC717 EC720 EC772 EC782 EC765 CS585 MA665 MA666 BE771

Computational and Cyberphysical Systems
EC501 EC504 EC524 EC535 EC541 EC544 EC605 EC701 EC724 ME740 ME570

Computer Communications and Networks
EC505 EC508 EC515 EC521 EC524 EC534 EC541 EC544 EC561 EC715 EC724 EC725 EC727 EC733 EC741 EC744 EC749

Cybersecurity
EC503 EC504 EC521 EC535 EC541 EC544 CS542 CS548 CS552 CS558 CS568 CS640

Data Science and Intelligent Systems
EK500 EC503 EC504 EC505 EC517 EC524 EC528 EC541 EC544 EC719 EC724 EC733 CS505 CS506 CS542 CS523 CS530 CS640

Hardware
EC513 EC527 EC535 EC551 EC561 EC571 EC580 EC582 EC605 EC713 EC749 EC752 EC753 EC757 EC772 EC782

Imaging and Optical Science
EC520 EC555 EC562 EC565 EC568 EC570 EC577 EC762 EC763 EC777 CS585

Mobile and Cloud Computing
EC504 EC521 EC528 EC535 EC541 EC544 EC605 CS538 CS548 CS558 CS568 CS651

Photonics, Electronics, and Nanotechnology
EC500 L6 EC555 EC562 EC563 EC565 EC566 EC568 EC569 EC570 EC573 EC579 EC591 EC707 EC731 EC760 EC762 EC763 EC764 EC765 EC770 EC773 EC777

Sensing and Information
EC503 EC504 EC505 EC508 EC515 EC516 EC517 EC520 EC521 EC702 EC715 EC716 EC717, EC719, EC720 CS542 CS585 CS640

Signal Processing and Communications
EC503 EC505 EC508 EC515 EC516 EC517 EC519 EC520 EC541 EC702 EC715 EC716 EC717 EC719 EC720 CS542 CS585 CS640

Solid-State Circuits, Devices, and Materials
EC571 EC574 EC575 EC577 EC578 EC579 EC580 EC582 EC770 EC771 EC772 EC774 EC775 EC777 EC782 ME506

Software
EC504 EC511 EC512 EC521 EC527 EC528 EC535 EC544 EC605 EC712 EC730 CS530 CS561 CS630 CS640

Systems and Control
EC501 EC505 EC517 EC524 EC701 EC702 EC710 EC724 EC732 EC733 CS506 CS542 CS562 CS565 CS660 MA 541/542 MA721 MA751 BE562 BE572 BE575 ME570 ME740