

RADIO FREQUENCY - MICROWAVES - PHOTONICS CONCENTRATION

Approved Electives:¹

Select from the following: 9

EE 423/ Micro/Nano Fabrication
MATE 430/
BMED 434

EE 473/ Microfabrication Laboratory
MATE 435/BMED
435

MATE 210 Materials Engineering

MATE 215 Materials Laboratory I

MATE 340 Electronic Materials Systems

MATH 206 Linear Algebra I

MATH 304 Vector Analysis

PHYS 315 Lasers

PHYS 323 Optics

PHYS 408 Electromagnetic Fields and Waves I

PHYS 423 Advanced Optics

Technical Electives:¹

Select from the following: 11

EE 403 Introduction to Photonics and Fiber
Optics

EE 405 High Frequency Amplifier Design

EE 412 Advanced Analog Circuits

EE 413 Advanced Electronic Design

EE 416 Digital Communication Systems

EE 418 Photonic Engineering

EE 423/ Micro/Nano Fabrication
MATE 430/
BMED 434

EE 425 Analog Filter Design

EE 440 Wireless Communications

EE 443 Introduction to Photonics and Fiber
Optics Laboratory

EE 445 High Frequency Amplifier Design
Laboratory

EE 452 Advanced Analog Circuits Laboratory

EE 455 Analog Filter Design Laboratory

EE 456 Digital Communication Systems
Laboratory

EE 458 Photonic Engineering Laboratory

EE 480 Wireless Communications Laboratory

EE 502 Microwave Component and System
Engineering

EE 504 Software Defined Radio

EE 524 Solid State Electronics

EE 526 Advanced Digital Communications

EE 529 Microwave Device Electronics

EE 530 Fourier Optics

EE 533	Antennas
EE 534	Advanced Photonic Systems
EE 541	Advanced Microwave Laboratory
PHYS 423	Advanced Optics
Total units	20

¹ A course cannot be double-counted as an Approved Elective and a Technical Elective.