2025 EET CURRICULUM FLOW CHART **ELECTRICAL** Rowan (2+2 Transfer Program) **ENGINEERING TECHNOLOGY** University **SEMESTER I SEMESTER II** SEMESTER III **SEMESTER IV** SEMESTER V **SEMESTER VI SEMESTER VII SEMESTER VIII** EGR 02.351 EGR 02.352 EGR 02.451 EGR 02.452 **ENGR** JUN. TECH. JUN. TECH. SEN. TECH. SEN. TECH. Introduction to Engineering Design CLINIC I CLINIC II CLINIC I CLINIC II (0-2)(0-2)(0-2)(0-2)(4cr) **Varies** 000 PHYS **MATH 01.131 STAT 02.286** FCF 09.461 **MATH** EET/ECE 4XX PHYSICS I + PHYSICS II PRE-CALCULUS + CALCULUS I PROB & STAT CALCULUS II PROF. & EET (W/o CALCULUS) FOR ECES CONSULTANT **ELECTIVE** (6-2 CR) (8cR) (3-0)(0-1)(4-0)(3-0)EET 03.340 **EET 03.360 EET CORE APPLIED** APPLIED **PCB DESIGN EMBEDDED ELECTRIC CIRCUITS I & II + ELECTRONICS + DIGITAL SYSTEMS DSP** COMM. Sys. & RAPID PRO. Sys. & IOT (EET Core may consist of four 3-credit classes, or three 4-credit classes depending on institution) (4-0)(3-0)(3-1)(2-1)(12 CR) MET 07.360 ET / ET SCIENCE & TECHNOLOGY FOCUS **EET 03.332** EET 03.390 EET 03.390 INTRO TO ANALOG INT. Power & **EET TECHNOLOGY FOCUS ELECTIVES** PROJECT MECH SYS. **CIRCUITS** MANAGEMENT ENERGY SYS. (Specialized EET or suitable ET courses can be used. One of these four courses can be an (2-1)(2-1)(3-0)additional science class – other than Physics I/II) (12CR) (3-0)**Varies Varies** CS **GENERAL EDUCATION ROWAN CORE ROWAN CORE** EET/ECE 4XX EET/ECE 4XX A PROGRAM. COLLEGE COMP I + II, PUBLIC SPEAKING + MICRO OR ARTISTIC GLOBAL EET EET **CLASS** MACRO ECON. LITERACY LITERACY **ELECTIVE ELECTIVE** (3CR) (3 CR EACH) (3-0)(3-0)(3-0)(3-0) **√** Varies EET/ECE 4XX OOD **ENGINEERING CLINICS** OUT OF EET Course (hegis) ↑ Concurrent: the circle-end is a prerequisite for the arrow-Min. Prereq. ELECTIVE DISCIPLINE number end, but the two courses can be taken at the same time PHYSICAL & ENG. SCIENCES Grade Required EXP. (O) (3-0)**ELECTRICAL ENG. CORE** ECE 09.XYZ (x2) A project class to be taken twice Pre-requisite COURSE NAME **SIGNALS & SYSTEMS CORE** Same prerequisites apply to each. **DIGITAL SYSTEMS CORE** Lect. - Lab (2-1)This is the Preliminary EET curriculum for AY 2025-26. ECE Department works continuously Co-requisite

credit hours

Double frame indicates there are other options for this

class than the one indicated here. See advising sheet

ROWAN CORE

ECE/EET CROSS CUTTING

to improve curriculum, hence future / final curriculum may differ from this.

^{*} ECE 09.498 is not required for the students in the 2+2 program.

HANDS-ON

NASA SATELLITE DESIGN MACHINE LEARNING & Al

DESIGN

WIRELESS COMMUNICATIONS

EXPERIENCES

MICRO & SMART GRID

AUGMENTED & VIRTUAL REALITY / GAME DESIGN

NEXT GEN COMP. ARCHITECTURE

BIOINFORMATICS & GENETICS

SMART VEHICLES

UAV IDENTIFICATION

...PLUS 100+(!) MORE

AMAZON GOOGLE

DISNEY NAVSEA

PECO VERIZON

INDUCTOTHERM

NASA

FAA

L-3 HARRIS

LOCKHEED MARTIN

ATLANTIC CITY ELECTRIC

INNOVATIVE DEFENSE TECH.

IMPULSE DYNAMICS

...AND MANY OTHERS

CLINICS

ENGINEERING INTERNSHIPS

ECE

ENGINEERING

CORE

CONSULTING & ENTREPRENEUR-SHIP

CREDENTIALS

CERTIFICATES

WITH

STACKED

EMBEDDED SOFTWARE DESIGN

INTERNET OF THINGS

POWER SYSTEMS & SMART GRID

VIRTUAL REALITY & ADVANCED VISUALIZATION

AI & MACHINE LEARNING

DIGITAL IMAGE PROCESSING

OPTICAL & WIRELESS COMMUNICATIONS

PCB DESIGN & RAPID PROTOTYPING

SPACE / SYSTEMS ENGINEERING

ALTERNATIVE & RENEWABLE ENERGY

ENGINEERING CYBERSECURITY

CLOUD HARDWARE SECURITY

... AND MANY MORE EVERY SEMESTER

OPTIONAL FCE CO-OP EXPERIENCES

TECHNICAL

ELECTIVES

LOCKHEED MARTIN

ATLANTIC CITY ELECTRIC / EXELON CORP.

NAVSEA

(Full 6⁺ month Co-op with 4-Year degree completion)

SYSTEMS ENGINEERING

APPLIED MACHINE LEARNING

POWER SYSTEMS ENGINEERING

CYBERSECURITY ENGINEERING

COMBAT SYSTEMS ENGINEERING

WIND ENERGY

PROFESSIONALISM & CONSULTING

Establishing Your Own Business

MICRO & MACRO ECONOMICS

ENTREPRENEURSHIP AND INNOVATION

ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT