

COLLEGE CURRICULUM COMMITTEE

January 17, 2023

Via Zoom

2:00 – 5:00 p.m.

AGENDA

1. **A. Welcome to the Committee Members and Visitors.**

2. **Review of Minutes:** December 2023
<https://valenciacollege.edu/employees/organizations-committees/college-curriculum-committee/meetings.php>

3. **Consent Agenda:** Course modifications or deletions involving minor editing of course descriptions or level changes which do not impact other departments are eligible for placement on the consent agenda. Any members of the committee may request to remove a proposal from the consent agenda for the purpose of discussion.

a) The following course(s) have outlines in Course Information Management that may be accessed through ATLAS:

AOM 1050C
ART 1000C*, ART 2702C*
BOT 2011C
CAI 2000
CEN 3942
CET 2114C, CET 2118C
CET 3464C, CET 4370C, CET 4542, CET 4663
COP 3275C
EDF 3430
EET 1214C, EET 2036C, EET 2141C, EET 2142C, EET 2325C, EET 2365C, EET 2941C, EET 2942C
EET 3086C
EGN 2045
EGN 3046, EGN 3443
ETI 3116
ETS 1050C*, ETS 2052*, ETS 2052L*, ETS 2200*, ETS 2200L*, ETS 2210C, ETS 2220C, ETS 2221C,
ETS 2230C, ETS 2511C, ETS 2542C, ETS 2544C
EUH 2000

MAN 3000*, MAN 3001*, MAN 4000*, MAN 4001*
MTB 1329
NUR 3069C, NUR 3121, NUR 3145, NUR 3169, NUR 3667, NUR 3825, NUR 3870, NUR 4257, NUR 4286, NUR 4829, NUR 4837, NUR 4945C
ORH 2900*
RED 3940
SON 1001, SON 1001L
STA 2023, STA 2023H
SYG 2010

b) The following outlines are being presented as part of the Two-Year Program Review Cycle:

ARC 1701
ARH 2051
BSC 1011H
INR 2002, INR 2002H
PHI 2600H
POS 2041, POS 2041H

4. **Regular Agenda:**

2324-107 STA 1001C Introduction to Statistical Reasoning, CCD.....Roberta Carew
Purpose: The course is no longer being offered and has been removed as a prerequisite from other math courses; **Effective Date:** Fall 2024 (202510).

2324-108 STA 2023 Statistical Methods, CCM.....Emily Elrod
Purpose: Prereq changes; **Revised Prerequisites:** Minimum grade of C in MAT 0022C or MAT 0028C or MAT 1033C or MAC 1105 or MGF 1106 or MGF 1130 or MGF 1131 or appropriate score on an approved assessment; **Effective Date:** Fall 2024 (202510).

2324-109 STA 2023H Statistical Methods-Honors, CCM.....Emily Elrod

Purpose: Prereq changes; **Revised Prerequisites:** Minimum grade of C in MAT 0022C or MAT 0028C or MAT 1033C or MAC 1105 or MGF 1106 or MGF 1130 or MGF 1131 or appropriate score on an approved assessment; **Effective Date:** Fall 2024 (202510).

2324-110 A.S. in Audio Technology & Sound Production, CPM.....Raul Valery

Purpose: Changes in the Curriculum for EET courses. Replacing courses where the suffix C or L was either dropped or changed; **Effective Date:** Fall 2024 (202510).

2324-111 A.S. in Supervision and Management for Industry, CPM.....S. Casablanca

Purpose: Deletion of Aviator College Track; **Effective Date:** Fall 2024 (202510).

2324-112 CEN 3942 Internship in Computing Technology & Software Development, CCM.....A. Evans

Purpose: In agreement with the Internship Office and BAS CTSD faculty, students should not be able to earn more than 4 credits total through an internship experience. The previous limit of 3-9 is not in alignment with the fact that only 6 elective credits total are currently available. Furthermore, students should complete at least one elective course offered by the program in addition to the internship credit. A new limit of 4 credits total ensures students can complete an internship as well as an elective course to meet their program requirements; **Revised Credit/Contact/Lab Hours:** 3-4/0/0; **Revised Course Description:** This course is a work-based learning experience designed to immerse Computing Technology & Software Development students in learning opportunities in business and professional settings that are an extension of the Computing Technology & Software Development curriculum and allows students to enhance workplace skills while providing meaningful experience related to the student's career objectives. The internship experience is structured for learning with faculty supervision, reflection and evaluation. Students may enroll in up to a maximum of 4 credit hours of

internships and must complete a total of 240 work hours for each 3 credit hour internship experience. Grade forgiveness cannot be applied; **Effective Date:** Fall 2024 (202510).

2324-113 SYG 2010 Social Problems, CCM.....A. Trierbieniek

Purpose: Review for bi-annual review for assessment cycle; **Revised Course Description:** Analysis of major social problems confronting society. Special emphasis on critical thinking abilities in evaluating causes, effects and various approaches in dealing with social problems. Discussion includes such topics as mental illness, crime, juvenile delinquency, stratification, pollution, population, urbanization and influences detrimental to family stability: divorce, alcoholism, gambling, drug abuse. Minimum grade C required if SYG 2010 is used to satisfy Gordon Rule requirement; **Effective Date:** Fall 2024 (202510).

2324-114 CAI 2000 Intro to Artificial Intelligence, CCA.....G. Hensel

Purpose: New technology that is mainstream so our students need to learn how it works and how it will affect jobs and ethics in the future; **Credit/Contact/Lab Hours:** 3/3/0; **Prerequisites:** None; **Co-requisites:** None; **Catalog Course Description:** This course surveys Artificial Intelligence (AI) techniques, theories, and applications. Exposes students to AI project cycles and decision making. Students will be introduced to various social issues and concerns surrounding AI such as ethics and bias; **Effective Date:** Fall 2024 (202510).

2324-115 *ART 1000C Metal Casting, CCA.....M. Galletta

Purpose: This is a course we previously offered as an ART 2930c and want to add it as one of the Fine Art offerings for both majors and non-majors alike; **Credit/Contact/Lab Hours:** 3/6/3; **Prerequisites:** None; **Co-requisites:** None; **Catalog Course Description:** This is an introduction to metal casting for anyone interested in learning the lost wax casting process as it relates to sculptural forms. Direct work in wax for unique castings as well as mold making for multiples will be explored. Investing wax pieces, use of the furnace for casting, chasing, sandblasting and final finishing are demonstrated; **Effective Date:** Fall 2024 (202510).

2324-116 *ART 2702C Sculpture II, CCA.....M. Galletta

Purpose: The demand for a 2nd level sculpture class has grown and this class was offered occasionally as an ART2930c course. We would like to offer it on a consistent basis as follow up to Sculpture 1; **Credit/Contact/Lab Hours:** 3/6/3; **Prerequisites:** ART 2701C or department approval.; **Co-requisites:** None; **Catalog Course Description:** Sculpture II is the follow up course to Sculpture I. More complex plastic sculpting methods are explored along with the introduction to reductive processes. Metal fabrication using cutting and welding techniques is also introduced; **Effective Date:** Fall 2024 (202510).

2324-117 SON 1001 Abdominal Sonography I, CCM.....Carolyn Deleo

Purpose: SON 2762 is not an offering at Valencia. The State of Florida requires a prefix of RTE; **Revised Corequisites:** SON 1804L, RTE 2762; **Effective Date:** Fall 2024 (202510).

2324-118 SON 1001L Sonography Instructional Lab II, CCM.....Carolyn Deleo

Purpose: CLOs updated to reflect current Valencia College terminology and equity-mindedness. Dean updated to reflect new verbiage of School of.... **Corequisites-**there is no SON 2762 course, the correct prefix is RTE; **Revised Prerequisites:** SON 1000, SON 1000L, and SON 1002C; **Revised Corequisites:** SON 1001, SON 1804L and RTE 2762; **Effective Date:** Fall 2024 (202510).

2324-119 AOM 1050C Introduction to Organic Farming and Gardening Technician, CCA.....Javier Garces

Purpose: This new course was recommended by the Plant Science Program Advisory Committee and developed with Florida Organic Growers (FOG). There is an increased demand for organic farming technicians and the curriculum was developed in accordance with FOG as part of a USDA grant they received. This grant included a Workforce Development portion. It will be used as an elective for our A.S. degree and the Technical Certificates; **Credit/Contact/Lab Hours:** 3/4/1; **Prerequisites:** None; **Co-requisites:** None; **Catalog Course Description:** Designed to give curious farmers, farmworkers, and agriculture students an overview of the USDA National Organic

Program, the organic regulations, and organic crop production methods such as organic seed sourcing, composting, and pest, weeds, and disease management. This foundational course consists of learning modules with multiple lessons designed to be completed in sequential order. A portion of the course is a self-directed lesson study. No transcript is needed for non-credit enrollees. This course does not satisfy the general education requirement for science; **Effective Date:** Fall 2024 (202510).



2324-120 BOT 2011C Plant Diversity, CCA.....Javier Garces

Purpose: This new course for us is already offered by the University of Florida and is a requirement for admittance into the College of Agriculture and Life Science. The Plant Science Program Advisory Committee recommended added this course to our current elective list for our A.S. degree seeking students. This will allow for an easier A.S. to B.S. transition;

Credit/Contact/Lab Hours: 4/5/1; **Prerequisites:** BOT 2010C; **Co-requisites:** None; **Catalog**

Course Description: An overview of the biological diversity of modern algae and land plants, the traditional classification of plants, the evolutionary processes that generate biodiversity and the ecological processes that shape this diversity. In the laboratory students will see examples of the species we discuss in class and learn to identify key traits and species; **Effective Date:** Fall 2024 (202510).

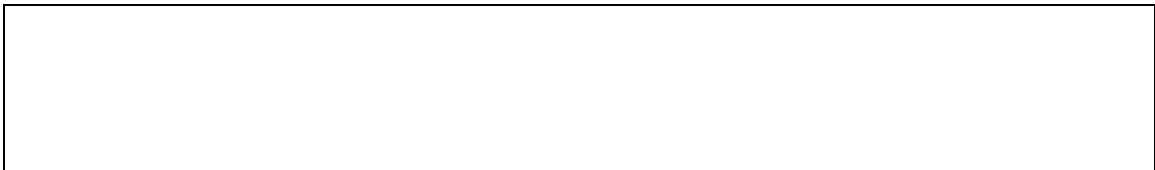


2324-121 *ORH 2900 Principles of Arboriculture, CCA.....Javier Garces

Purpose: This new course in Arboriculture was recommended by the Plant Science program's advisory committee. It will cover the principles of this field and be useful for those either looking for employment, or currently employed in, the amusement park/resort setting, city/municipal work, and the landscape installation/maintenance sector. It will be added to our elective list for the two A.S. degree specializations and the various technical certificates; **Credit/Contact/Lab**

Hours: 3/4/1; **Prerequisites:** PLS 1010C; **Co-requisites:** None; **Catalog Course Description:**

An overview of the principles of arboriculture including tree structure, tree biology, and basic soil plant relationships. Techniques and methods to evaluate and improve overall plant health, structural integrity, planting procedures, and seasonal pruning are presented. This course does not satisfy the general education requirement for science; **Effective Date:** Fall 2024 (202510).



2324-122 A.S. in Plant Science and Agricultural Technology, CPM.....Javier Garces
Purpose: Adding several new courses and an existing course using CAD as elective course options for the program; **Effective Date:** Fall 2024 (202510).

2324-123 Plant Science Technician Certificate, CPM.....Javier Garces
Purpose: Added new courses as electives based on advisory committee recommendations, including an existing course using CAD.; **Effective Date:** Fall 2024 (202510).

2324-124 EDF 3430 Measurement, Evaluation, and Assessment in Education, CCA.....Ellen Costello
Purpose: New course to align with removal of Reading Endorsement Competency 3 (Assessment) and meet teacher certification requirements of initial and renewal of professional FL teaching certificate; **Credit/Contact/Lab Hours:** 3/3/0; **Prerequisites:** Hold a bachelor's degree with a minimum overall GPA of 2.5 from a regionally accredited college or university; possess a valid and current Statement of Status of Eligibility or Temporary Teaching Certificate from the Florida Department of Education stating they are eligible to teach; apply and be accepted first at Valencia College and then the EPI Program; or receive department approval; **Co-requisites:** None; **Catalog Course Description:** Knowledge and skills for teachers and prospective teachers to identify and administer educational assessment practices that include analysis and application of data from statewide standardized assessments, use a systematic problem-solving process to analyze assessment data, inform content instruction, and equitably meet the needs of diverse, K-12 learners; **Effective Date:** Fall 2024 (202510).

2324-125 RED 3940 Clinical Field Experience in Reading, CCM.....Ellen Costello
Purpose: Credit modification to reflect additional coursework in measurement and evaluation of reading processes and data; **Revised Course Title:** EPI Clinical Field Experience in Reading; **Revised Credit/Contact/Lab Hours:** 3/3/0; **Revised Prerequisites:** RED 3042 and RED 4352; **Revised Catalog Course Description:** EPI Clinical Field Experience in Reading is for candidates to

demonstrate knowledge of the components of reading, as well as assessments and data analysis, to implement a comprehensive research-based reading plan of instruction for all students. Candidates will engage in the systematic problem-solving process in a PK-12 classroom. The course addresses Reading Competency 5 and is reserved for those candidates seeking the full FL DOE Reading Endorsement; **Effective Date:** Fall 2024 (202510).

2324-126 RED 3551 Foundations of Assessment, CCD.....Ellen Costello
Purpose: RED 3551 will be replaced in the EPI program by the new RED 4352 which is shared with the BS in Elementary Education degree. End date for offering RED 3551 should be summer 2025 or 202530; **Effective Date:** Fall 2024 (202510).

2324-127 Educator Preparation Institute, CCM.....Ellen Costello
Purpose: The EPI program realigned many of its courses to the new BS in Elementary Education degree. As a result, we now have two tracks available to students: one that includes the FL Reading Endorsement and one that does not. Please see attached progression and track chart dated 12/15/23; **Effective Date:** Fall 2024 (202510).

2324-128 *MAN 3000 Digital Recruitment, CCA.....Jerrid Kalakay
Purpose: New HR concentration within BASBOL; **Credit/Contact/Lab Hours:** 3/3/0;
Prerequisites: None; **Co-requisites:** None; **Catalog Course Description:** This course will explore how to effectively attract and retain talent by creating a powerful employment brand that resonates with different parts of the workforce. Explore how digital resources continue to be valuable to the HR professional and apply this knowledge to your recruiting and retention activities; **Effective Date:** Fall 2024 (202510).

2324-129 *MAN 3001 Employee Relations and Development in Human Resource Management, CCA.....Jerrid Kalakay

Purpose: New HR concentration within BASBOL; **Credit/Contact/Lab Hours:** 3/3/0;
Prerequisites: None; **Co-requisites:** None; **Catalog Course Description:** Employee Relations & Development explores the correlation between employees engaged in their work environment and the role of Human Resources through managerial strategies. Developing employees and aligning their interests more closely with managerial goals will in turn boost organizational performance, encourage employee engagement, and improve employee relations; **Effective Date:** Fall 2024 (202510).

2324-130 *MAN 4000 Strategic Workforce Planning, CCA.....Jerrid Kalakay

Purpose: New HR concentration within BASBOL; **Credit/Contact/Lab Hours:** 3/3/0;
Prerequisites: None; **Co-requisites:** None; **Catalog Course Description:** Strategic workforce planning aims to proactively put the right people, in the right place, at the right time at the right cost to mitigate workforce risk now and in the future. In this course, you will learn Workforce Planning processes and techniques with a data-driven approach with a focus on the practical application of Workforce Planning; **Effective Date:** Fall 2024 (202510).

2324-131 *MAN 4001 Applied Concepts in Human Resources, CCA.....Jerrid Kalakay

Purpose: New HR concentration within BASBOL; **Credit/Contact/Lab Hours:** 3/3/0;
Prerequisites: None; **Co-requisites:** None; **Catalog Course Description:** This course uses case studies and experiential/simulated learning strategies to apply to human resources management. Students will develop and apply communication and employee relations skills with problem-solving and decision-making abilities to address work-related, human resources challenges; **Effective Date:** Fall 2024 (202510).

2324-132 Bachelor of Applied Science in Business and Organizational Leadership, CPM.....Jerrid Kalakay
Purpose: *insert purpose here*; **Effective Date:** Fall 2024 (202510).

Missing program modification

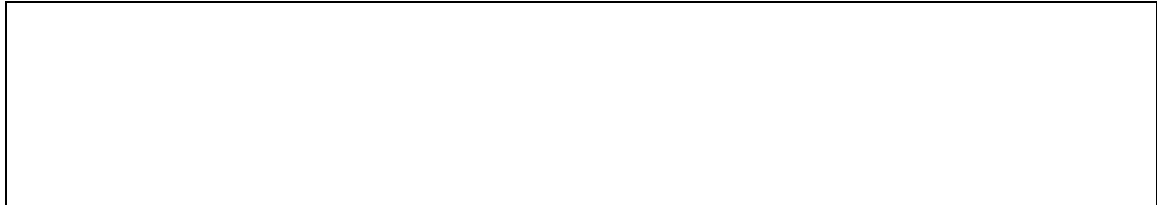
2324-133 CET 2113C Digital Systems II, CCD.....Radu Bunea
Purpose: Deleted course; **Effective Date:** Fall 2024 (202510).

2324-134 CET 2114C Digital Systems, CCM.....Radu Bunea
Purpose: Updated syllabus and TVCA.; **Revised Prerequisites:** EET 1214C and either MTB 1329 or MAC 1105 or higher; **Effective Date:** Fall 2024 (202510).

2324-135 CET 2118C FPGA Design Using VDHL, CCM.....Radu Bunea
Purpose: Updated syllabus and TVCA; **Revised Prerequisites:** CET 2114C or CET 2113C; **Effective Date:** Fall 2024 (202510).

2324-136 EET 1036C Fundamentals of DC and AC Circuits, CCD.....Radu Bunea
Purpose: Revise course number; **Revised Course Number:** EET 2036C; **Effective Date:** Fall 2024 (202510).

2324-137 EET 2036C Principles of Electric Circuits, CCA.....Radu Bunea
Purpose: Combination of EET 1015C and EET 1025C into one course (EET 2036C) due to some topics already covered in other courses (i.e. EET 1214C). Inclusion of the dependent sources in the topics; **Credit/Contact/Lab Hours:** 3/4/2; **Prerequisites:** EET 1214C and either MTB 1329 or MAC 1105; **Co-requisites:** None; **Catalog Course Description:** Fundamental course in DC and AC circuits designed to prepare students for advanced courses in electrical and electronics circuits. A study of electrical laws, theorems, components, and networks used in DC and AC circuit applications; **Effective Date:** Fall 2024 (202510).



2324-138 EET 1141C Semiconductor Devices & Circuits, CCD.....Radu Bunea
Purpose: Revise course number; **Revised Course Number:** EET 2036C; **Effective Date:** Fall 2024 (202510).

2324-139 EET 2141C Semiconductor Devices & Circuits, CCA.....Radu Bunea
Purpose: The course prefix and title did not reflect the level of the course and the prerequisites; **Credit/Contact/Lab Hours:** 3/4/2; **Prerequisites:** EET 2036C or EET 1025C or EET 2035C; **Co-requisites:** None; **Catalog Course Description:** First of two-course sequence in electronic semiconductor circuits. Provides basic understanding of electronic circuits which utilize semiconductor diode and transistor circuit elements. Introduces concept of circuit simplification via idealizations, approximations and overview of semiconductor devices and their electrical properties. Emphasis on circuit analysis and various small-signal, linear and power applications utilizing diodes and transistors. Students assigned appropriate hands-on laboratory projects to expose them to practical considerations in implementing various semiconductor circuits analyzed in the classroom; **Effective Date:** Fall 2024 (202510).



2324-140 EET 1214C Introduction to Engineering Technology, CCM.....Radu Bunea
Purpose: Student success is increased if the course is completed in the same semester with one of the above math courses or if one of the above math courses have been already taken; **Revised Prerequisites:** MTB 1329, MAC 1140, or higher; **Revised Corequisites:** MTB 1329, MAC 1140, or higher; **Effective Date:** Fall 2024 (202510).

Corequisite issue

2324-141 MTB 1329 Mathematics for Engineering Technology, CCM.....Radu Bunea
Purpose: Student success is increased if the course is completed in the same semester with EET 1214C; **Revised Corequisites:** EET 1214C; **Effective Date:** Fall 2024 (202510).

Corequisite issue

2324-142 EET 2142C Integrated Circuits, CCM.....Radu Bunea
Purpose: Prerequisite prefix changed; **Revised Prerequisites:** EET 2141C; **Effective Date:** Fall 2024 (202510).

Corequisite issue

2324-143 EET 2325C RF Communication, CCM.....Radu Bunea
Purpose: Prerequisite prefix changed; **Revised Prerequisites:** EET 2141C; **Effective Date:** Fall 2024 (202510).

Corequisite issue

2324-144 EET 2635C Wireless and Data Communication, CCM.....Radu Bunea
Purpose: Prerequisite prefix changed; **Revised Prerequisites:** CET 2113C or CET 2114C and EET 2141C; **Effective Date:** Fall 2024 (202510).

Corequisite issue

2324-145 EET 2941 Internship Exploration in Electronic Engineering, CCM.....Radu Bunea
Purpose: Prerequisite prefix changed; **Revised Prerequisites:** Satisfactory completion of EET 1025C or EET 2035C, or EET 2036C, and CET 2113C or CET 2114C; and Internship Office approval;
Effective Date: Fall 2024 (202510).

2324-146 EET 2942 Internship in Electronics Engineering Technology, CCM.....Radu Bunea
Purpose: Adjusted the prerequisites to the new course numbers; **Revised Prerequisites:** Satisfactory completion of all mandated courses in Reading, Mathematics, English, and English for Academic Purposes; and EET 1025C or EET 2035C or EET 2036C, CET 2113C or CET 2114C, EET 2141C, and ETS 2210C. The Program Director/Program Chair/Program Coordinator or Internship Placement Office has the discretion to provide override approval as it relates to the waiver of required program/discipline-related courses; **Effective Date:** Fall 2024 (202510).

2324-147 ETS 2220C Intro to Fiber Optics, CCM.....Radu Bunea
Purpose: The course prefix and/or title did not reflect the level of the course and the prerequisites; **Revised Course Title:** Principles of Fiber Optics Communication; **Revised Prerequisites:** MTB 1329 or MAC 1105. ETS 2210C; **Revised Corequisites:** ETS 2210C; **Effective Date:** Fall 2024 (202510).

2324-148 ETS 2221C Intro to Electro-Optical Devices, CCM.....Radu Bunea
Purpose: The course prefix and/or title did not reflect the level of the course and the prerequisites; **Revised Course Title:** Electro-Optical Devices; **Revised Prerequisites:** ETS 2210C; **Effective Date:** Fall 2024 (202510).

2324-149 ETS 2230C Introduction to Lasers, CCM.....Radu Bunea

Purpose: The course prefix and/or title did not reflect the level of the course and the prerequisites; **Revised Course Title:** Principles of Lasers; **Revised Prerequisites:** ETS 2210C; **Revised Course Description:** This course introduces students to the principles of laser operations, safety, and applications. Topics include: Elements and Operation of a Laser, Laser Safety, Emission and Absorption of Light, Lasing Action, Optical Cavities and Modes of Oscillation, Temporal and Spatial Characteristics of Lasers, and Laser Classifications and Characteristics. Laboratory experimentations will complement and reinforce the theoretical concepts of lecture material; **Effective Date:** Fall 2024 (202510).

2324-150 ETS 2230C Electromechanical Systems, CCM.....Radu Bunea

Purpose: Prerequisite prefix changed. Course description and topics updated; **Revised Prerequisites:** EET 1025C or EET 2035C or EET 2036C; **Revised Course Description:** A study of devices and components that translate electrical energy into mechanical motion such as servo motors, stepping motors, solenoids, linear motors and actuators. The basic concepts and operational behavior of dc, induction, brushless dc, and stepper motors used in control applications are presented; **Effective Date:** Fall 2024 (202510).

2324-151 ETS 2542C Programmable Logic Controllers I, CCM.....Radu Bunea

Purpose: Prerequisite changed; **Revised Course Title:** Programmable Logic Controllers; **Revised Prerequisites:** CET 2114C; **Effective Date:** Fall 2024 (202510).

2324-152 ETS 2544C Programmable Logic Controllers II, CCM.....Radu Bunea

Purpose: Prerequisite changed; **Revised Course Title:** Advanced Programmable Logic Controllers; **Revised Prerequisites:** ETS 2542C; **Effective Date:** Fall 2024 (202510).

2324-153 A.S. in Electrical and Computer Engineering Technology, CPM.....Radu Bunea
Purpose: Course updates and BS ECET program modifications (math sequence); **Effective Date:**
 Fall 2024 (202510).

2324-154 *ETS 1050C Introduction to Photonics Engineering Design, CCA.....R. Bunea
Purpose: This course will be part of the Photonics specialization offered under the AS STEM and it will be the equivalent of OSE 2050 Geometric Optics at CREOL-UCF; **Credit/Contact/Lab Hours:**
 1/2/1; **Prerequisites:** None; **Corequisites:** None; **Course Description:** Hands-on experiments on real-life optics & photonics, to develop abilities in design, control, and communication with photonic devices used in computers and/or smartphones; **Effective Date:** Fall 2024 (202510).

Missing syllabus

2324-155 *ETS 2052 Foundations of Photonics, CCA.....R. Bunea
Purpose: This course will be part of the Photonics specialization offered under the AS STEM and it will be the equivalent of OSE 2050 Geometric Optics at CREOL-UCF; **Credit/Contact/Lab Hours:**
 3/3/0; **Prerequisites:** Minimum grade of C in ETS 2210C, PHY 2049C, and MAC 2313;
Corequisites: ETS 2052L; **Course Description:** Introduction to wave and photon models of light. Polarization and coherence. Interference and diffraction of light. Interferometers and spectrometers; **Effective Date:** Fall 2024 (202510).

Missing syllabus

2324-156 *ETS 2052L Foundations of Photonics Laboratory, CCA.....R. Bunea
Purpose: This course will be part of the Photonics specialization offered under the AS STEM and it will be the equivalent of OSE 2050 Geometric Optics at CREOL-UCF; **Credit/Contact/Lab Hours:**
 1/2/2; **Prerequisites:** None; **Corequisites:** ETS 2052; **Course Description:** The laboratory course is designed to reinforce the concepts discussed in class with a hands-on approach and to allow the students to learn laboratory techniques for observing optical phenomena and quantitative experimental characterization in geometrical optics, polarization, interference, and diffraction; **Effective Date:** Fall 2024 (202510).

Missing syllabus

2324-157 *ETS 2200 Geometric Optics, CCA.....R. Bunea
Purpose: This course will be part of the Photonics specialization offered under the AS STEM and it will be the equivalent of OSE 2050 Geometric Optics at CREOL-UCF; **Credit/Contact/Lab Hours:** 3/3/0; **Prerequisites:** Minimum grade of C in ETS 2210C and PHY 2048C; **Corequisites:** ETS 2200L; **Course Description:** Fundamentals of geometrical optics. Geometrical theory of image formation. Chromatic and monochromatic aberrations. Optical systems; **Effective Date:** Fall 2024 (202510).

Missing syllabus

2324-158 *ETS 2200L Geometric Optics Laboratory, CCA.....R. Bunea
Purpose: This course will be part of the Photonics specialization offered under the AS STEM and it will be the equivalent of OSE 2050 Geometric Optics at CREOL-UCF; **Credit/Contact/Lab Hours:** 1/2/2; **Prerequisites:** None; **Corequisites:** ETS 2200; **Course Description:** Introductory optics lab that studies the behavior of light as rays. Reflection, refraction, and transmission. Lenses, mirrors, and prisms. Image formation and beam manipulation. Measure and characterize archetypal optical systems such as telescopes, cameras, and microscopes; **Effective Date:** Fall 2024 (202510).

Missing syllabus

2324-159 ETS 1210C Intro to Photonics, CCD.....Radu Bunea
Purpose: Revise course number; **Revised Course Number:** ETS 2210C; **Effective Date:** Fall 2024 (202510).

2324-160 ETS 2210C Principles of Photonics, CCA.....Radu Bunea
Purpose: The course prefix and title did not reflect the level of the course and the prerequisites.; **Credit/Contact/Lab Hours:** 3/4/2; **Prerequisites:** MTB 1329 or MAC 1105 and EET 1214C or ETS 1050C; **Corequisites:** None; **Revised Course Description:** A course exploring the principles of Photonics theory, concepts, and applications. Contents include the nature and properties of light, light sources, human vision, and laser safety, basics of geometric and physical optics, and

basic principles and applications of holography. Laboratory experimentations will complement theoretical concepts of the course; **Effective Date:** Fall 2024 (202510).

2324-161 A.S. in Science, Technology, Engineering and Math (STEM), CPM.....M. Kar

Purpose: Adding a new Photonic specialization; **Effective Date:** Fall 2024 (202510).

**2324-162 CET 3464 Software Applications in Engineering Technology,
CCM.....Masood Ejaz**

Purpose: Adding the new Engineering Technology Math course, EGN 2045, as one of prerequisite options; **Revised Prerequisites:** Minimum grade of C in MAC 1114 and minimum grade of C in MAC 1140, or minimum grade of C in EGN 2045; **Effective Date:** Fall 2024 (202510).

2324-163 CET 4370C Advanced Programming Applications, CCM.....Masood Ejaz

Purpose: Adding EGN 3046 in the list of prerequisite options; **Revised Prerequisites:** Minimum grade of C in EGN 3428 or minimum grade of C in EGN 3046, and minimum grade of C in CET 3464C; **Effective Date:** Fall 2024 (202510).

2324-164 CET 4542 Computer Architecture and Data Communication, CCM.....Masood Ejaz
Purpose: Adding EGN 3046 in the list of prerequisite options; **Revised Prerequisites:** CET 2113C or CET2114C, and a minimum grade of C in EGN 3046 or a minimum grade of C in EGN 3428, and CET 2123C; **Effective Date:** Fall 2024 (202510).

2324-165 CET 4663 Computer and Network Security, CCM.....Masood Ejaz
Purpose: Adding EGN 3046 in the list of prerequisite options; **Revised Prerequisites:** Minimum grade of C in EGN 3046 or minimum grade of C in EGN 3428, and CET 2123C; **Effective Date:** Fall 2024 (202510).

2324-166 COP 3275C C/C++ Programming for Engineering Technology, CCM.....Masood Ejaz
Purpose: Adding EGN 3046 in the list of prerequisite options; **Revised Prerequisites:** Minimum grade of C in MAC 2312 or minimum grade of C in EGN 3046; **Effective Date:** Fall 2024 (202510).

2324-167 EET 3086C Circuit Analysis, CCM.....Masood Ejaz
Purpose: Adding EET 2036C and EGN 3046 in the list of prerequisite options; **Revised Prerequisites:** EET 1025C or EET 1036C or EET 2035C or EET 2036C or minimum grade grades of C in EET 3081C, and minimum grades of C in EGN 3046 or minimum grade of C in EGN 3428, and minimum grade of C in CET 3464C; **Effective Date:** Fall 2024 (202510).

2324-168 EGN 3443 Probability and Statistics for Engineering Technology, CCM.....Masood Ejaz
Purpose: Adding EGN 3046 in the list of prerequisite options; **Revised Prerequisites:** Minimum grade of C in MAC 2312 or minimum grade of C in EGN 3046; **Effective Date:** Fall 2024 (202510).

2324-169 ETI 3116 Quality Assurance and Testing Methods, CCM.....Masood Ejaz
Purpose: Adding EGN 3046 in the list of prerequisite options; **Revised Prerequisites:** Minimum grade of C in MAC 2312 or minimum grade of C in EGN 3046; **Effective Date:** Fall 2024 (202510).

2324-170 EGN 2045 Engineering and Technology Calculus I, CCA.....Ali Notash
Purpose: First of two course sequence in Engineering and Technology Calculus to satisfy admission and prerequisites requirement in the Bachelor of Science in Electrical and Computer Engineering Technology program; **Credit/Contact/Lab Hours:** 3/4/0; **Prerequisites:** Minimum grade of C in MAC 1114; **Corequisites:** None; **Course Description:** This course presents the concepts of pre-calculus and calculus with direct real world, technical applications that illustrate the relevance and usefulness of technical mathematical skills necessary to solve complex engineering and technology problems outside the classroom. Concepts through linear algebra, matrices, derivatives of algebraic and transcendental functions, techniques of differentiation, applications of derivatives, differentials, and optimization are covered. Minimum grade of C required if used to satisfy Electrical and Computer Engineering Technology, B.S. Degree requirement; **Effective Date:** Fall 2024 (202510).

2324-171 EGN 3046 Engineering and Technology Calculus II, CCA.....A. Notash
Purpose: The Second course in Engineering and Technology Calculus provides real-world, technical applications suitable for engineering, science, and technology majors that illustrate the relevance and usefulness of technical mathematics outside of the classroom. 2) To prepare

students with the necessary and critical engineering and engineering technology academic/industrial contents, applications, and skills suited for BSECET program; **Credit/Contact/Lab Hours:** 4/4/0; **Prerequisites:** Minimum grade of C in EGN 2045 or MAC 2311; **Corequisites:** None; **Revised Course Description:** In this second Engineering and Technology Calculus course, the study of techniques and applications of Calculus to solve complex engineering and technology problems will be reinforced and extended. Concepts through sequences and series; antiderivatives, definite integrals, techniques and applications of integration; First- and Higher-Order differential equations, Laplace transforms; multivariable calculus and Fourier series are covered. Minimum grade of C required if used to satisfy Electrical and Computer Engineering Technology, B.S. Degree requirement; **Effective Date:** Fall 2024 (202510).

2324-172 B.S. in Electrical and Computer Engineering Technology (A.A. Program Requirements), CPD.....Masood Ejaz

Purpose: A new program form has been submitted with both A.S. and A.A. tracks under one document; **Effective Date:** Fall 2024 (202510).

2324-173 B.S. in Electrical and Computer Engineering Technology (A.S. Program Requirements), CPD.....Masood Ejaz

Purpose: A new program form has been submitted with both A.S. and A.A. tracks under one document; **Effective Date:** Fall 2024 (202510).

2324-174 B.S. in Electrical and Computer Engineering Technology, CPM.....Masood Ejaz

Purpose: (i) Presenting all the program requirements on a single page instead of dividing them between A.S. and A.A. tracks. This will clearly show any student who is applying for the program the coursework that they will have to finish in order to graduate. (ii) The program is making changes to the admission requirements. The current admission requirements are Calculus I (MAC

2311), Calculus II (MAC 2312), and Physics I (PHY 2048C). The revised admission requirements are College Trigonometry (MAC 1114) and Physics I (PHY 2053C or PHY2048C). (iii) The program is introducing two new Calculus for Engineering Technology courses that students will be able to take once they are admitted to the program. The first course will be part of the A.S. ECET program and the second course will be offered under the B.S. ECET program. These courses will concentrate on the important topics of Calculus from Precalculus Algebra, Calculus I, Calculus II, and Differential Equations required for Engineering Technology students with a focus on the applications in the engineering and technology fields. (iv) To make room for the two new Calculus for Engineering Technology courses, an advanced-level math course and a statistics course have been removed from the program. Calculus II for Engineering Technology will cover the required topics discussed in the advanced math course (EGN 3428), and required statistical topics are discussed in the Quality Assurance (ETI 3116) course. (v) Adding more courses to the advanced technical electives list; **Effective Date:** Fall 2024 (202510).

2324-175 NUR 1003C Transition into Professional Nursing, CCD.....Ruby Alvarez
Purpose: This course is no longer offered. We have taught this course out of the program;
Effective Date: Fall 2024 (202510).

2324-176 NUR 1021C Nursing I, CCD.....Ruby Alvarez
Purpose: This course is no longer offered. We have taught this course out of the program;
Effective Date: Fall 2024 (202510).

2324-177 NUR 1032C Nursing II, CCD.....Ruby Alvarez
Purpose: This course is no longer offered. We have taught this course out of the program;
Effective Date: Fall 2024 (202510).

2324-178 NUR 3069C Advanced Health Assessment, CCM.....M. Smythe

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Prerequisites:** NUR 3825; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to examine the principles and concepts of health and physical assessment for clients throughout the lifespan. Students will develop and refine skills in client assessment, communication, and health promotion; **Effective Date:** Fall 2024 (202510).



2324-179 NUR 3125C Pathophysiology for Nursing Practice, CCM.....Colleen Cox

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to examine the basic concepts and processes of pathophysiology for common disease conditions. The content will build on earlier course work such as anatomy, physiology, microbiology, chemistry, and nutrition. The mechanisms of underlying clinical manifestations, prevention, and treatments will be discussed; **Effective Date:** Fall 2024 (202510).



2324-180 NUR 3145 Pharmacology, CCM.....S. Winchoba

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to focus on the effects of pharmacotherapy used in the treatment of selected illnesses, and the promotion, maintenance and restoration of wellness in diverse populations across the lifespan. Emphasis is placed on the concepts of pharmacodynamics and pharmacokinetics. Course outcomes include a detailed understanding of the nurse's role in safe drug administration, assessment of patient response to drug therapy, patient education, and evidence-based treatment guidelines. Legal and ethical principles of medication administration are reviewed; **Effective Date:** Fall 2024 (202510).



2324-181 NUR 3169 Evidence and Research in Nursing Practice, CCM...S. Winchoba

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Prerequisites:** Minimum grades of C in STA 2023, NUR 3825; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to focus on the processes required to integrate evidence and research into nursing practice. The primary emphasis is on skills to evaluate scientific evidence for nurse-sensitive quality markers so that students can utilize published healthcare research to influence practice; **Effective Date:** Fall 2024 (202510).

2324-182 NUR 3668 Diversity and Global Trends in Nursing, CCM.....M. Smythe

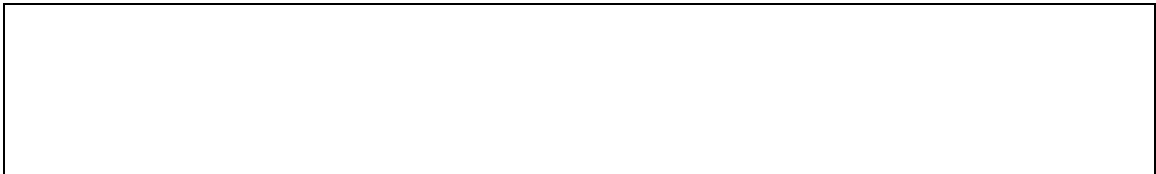
Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to examine the development of nursing competence in a diverse population. Global approaches to healthcare will be examined to aid the nurse in the development of professional nursing practice. Key issues and trends related to selected national and global healthcare topics will be explored. Specific attention will be given to basic health beliefs of selected cultures, health disparities, and under-served populations both nationally and internationally; **Effective Date:** Fall 2024 (202510).

2324-183 NUR 3825 Professions of Role Transformation, CCM.....C. Cox

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to examine the role expectation of the baccalaureate nurse by integrating the professional standards, ethical principles, and management roles as it relates to critical thinking as part of the global perspectives of the healthcare delivery system; **Effective Date:** Fall 2024 (202510).

2324-184 NUR 3870 Informatics in Healthcare Nursing, CCM.....S. Winchoba

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Prerequisites:** NUR 3825; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to explore informatics nursing careers and the effective use of patient care technologies. The student will gain a basic understanding of the multidisciplinary combination of nursing science, computer science, information science and cognitive science. Additionally, this course will provide an introductory overview of relevant clinical information systems (CIS), basic informatics concepts, decision making support tools, and an examination of health information technologies that promote safety, improve quality, foster consumer centered care and efficiency; **Effective Date:** Fall 2024 (202510).



2324-185 NUR 4257 Critical Care Nursing, CCM.....M. Smythe

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to examine the integration of nursing knowledge and skills in caring for adult clients and their families impacted by critical illness. The emphasis is on both pathophysiology and clinical management; **Effective Date:** Fall 2024 (202510).



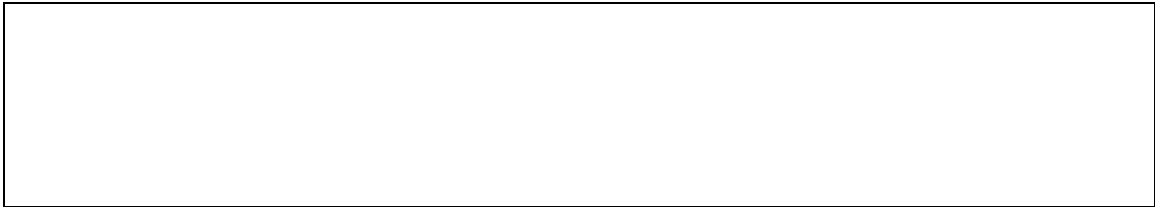
2324-186 NUR 4286 Gerontological Nursing, CCM.....S. Winchoba

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Prerequisites:** NUR 3825; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to examine the process of aging. Physical, psychological, sociocultural, and spiritual aspects of aging are examined within the context of the family and society. Advanced theoretical concepts of aging will be examined using the nursing process. The course will also present the unique health care needs of the older adult and introduce students to how nursing approaches manage those needs. Ethical/legal issues related to the nursing care of the older adults are explored; **Effective Date:** Fall 2024 (202510).



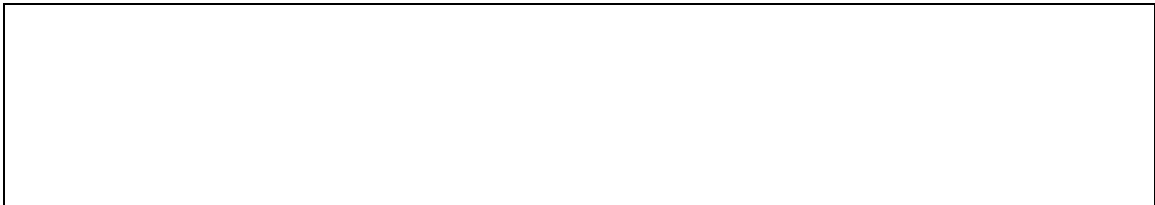
2324-187 NUR 4829 Leadership and Management in Nursing, CCM.....C. Cox

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Prerequisites:** NUR 3825; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to examine leadership and management concepts used to address complex micro-system issues within selected healthcare organizations. Emphasis is on the application of advanced communication skills in collaboration with inter-professional teams. The focus is on the interrelationship of selected roles within the context of specific theoretical frameworks and models of care; **Effective Date:** Fall 2024 (202510).



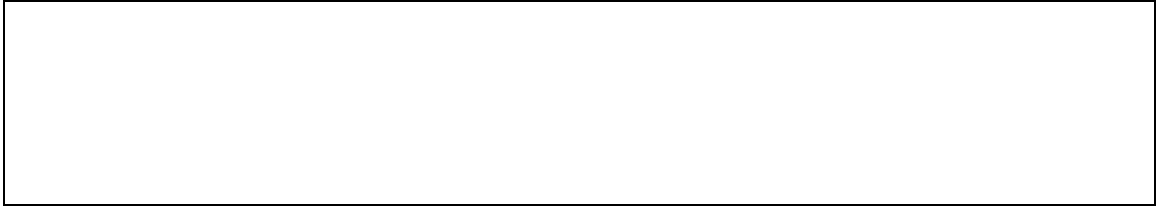
2324-188 NUR 4837 Healthcare Policy and Economics in Nursing, CCM.....C. Cox

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to examine the foundations of healthcare policy that impact nursing practice and client care. Students will participate in a critical analysis of current legislative issues, economic constraints, and political controversies that influence emerging trends in nursing practice and health care systems. Course content will include an appraisal of the implications of policy and economics on issues of access, equity, affordability, health disparities, and social justice in health care. Students will gain knowledge that prepares them to assume leadership roles in health policy development; **Effective Date:** Fall 2024 (202510).



2324-189 NUR 4945C Nursing Capstone, CCM.....C. Cox

Purpose: Transition to AACN Essentials 21 competency-based education curriculum; **Revised Catalog Course Description:** This course uses a competency-based conceptual framework to provide online RN to BSN students the opportunity to examine previous learning and provide the student with experiential learning in select practice settings. The student will integrate nursing research knowledge, leadership and management, and nursing theories to design, implement, or lead a project that will improve patient/population outcomes and facilitate the transition to professional practice. The student must have a current Florida RN license to enroll in this course. This course requires students to complete a capstone experiential learning project in the last term of the BSN program. The capstone project will be based on an agreement between the student, and the experiential learning site with supervision from the faculty coordinator of experiential learning; **Effective Date:** Fall 2024 (202510).



5. **Discussion Items:**

There are no information items on this month's agenda.

6. **Information Items:**

There are no information items on this month's agenda.

The next meeting of the College Curriculum Committee is scheduled for **February 14, 2024**, and will be a zoom meeting. The deadline for submission of materials for the agenda is **January 31, 2024**.