



College of Sciences

Lee Anne Kirkpatrick

Director

Academic Success Coaching

College of Science Advising Services (COSAS)



College Information

- sciences.ucf.edu
- sciences.ucf.edu/cosas/ (advising/coaching)
- cosas@ucf.edu
- CSB 250
- Front office is both virtual and in-person (see website for COSAS hours)
- Appointments can be virtual or in person
- Phone Number: To join Virtual Office (VO) by phone:
 - dial +1-929-205-6099;
 - Meeting ID: 961 8506 9254# US

Degree Programs or Departments

Social Sciences

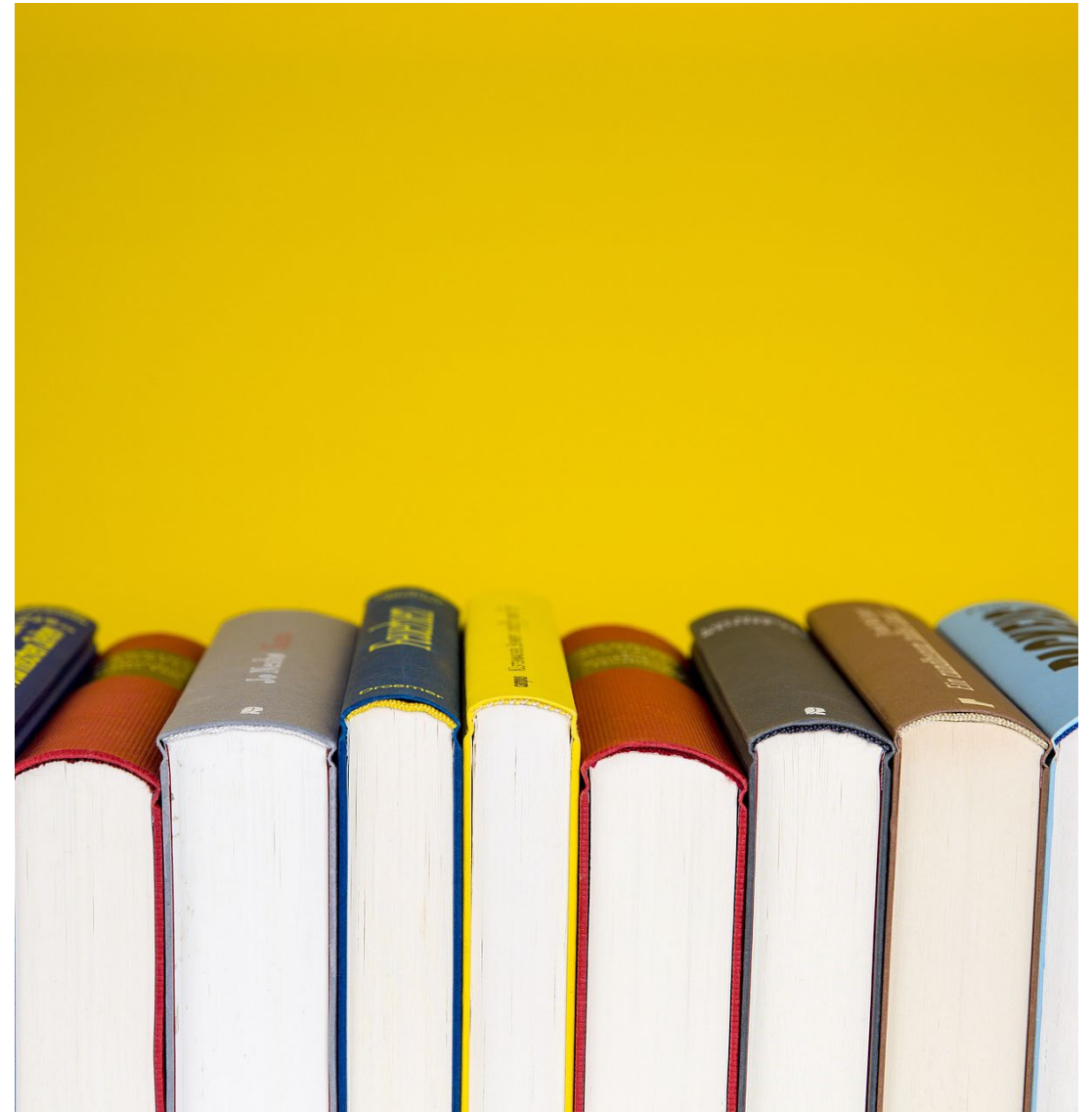
- Anthropology (BA)
- School of Politics, Security, and International Affairs (SPSIA) (Political Science BA, International & Global Studies BA)
- Psychology (BS)
- Sociology (Sociology BA/BS, Social Sciences BS)



Degree Programs or Departments

Natural and Computational Sciences

- Biology (BS)
- Chemistry (Chemistry BS, Chemistry BA , Forensic Science BS)
- Mathematics (BS)
- Physics (BA, BS)
- Statistics and Data Science (Actuarial Science BS, Data Science BS, Statistics BS)



Degree Programs or Departments

Communication and Media

- Nicholson School of Communication and Media (NSCM) (Advertising/Public Relations BA, Communication & Conflict BA*, Digital Media BA*, Film BA, BFA, Communication BA (eff. Aug 1, 2023, formerly Human Communication)*, Journalism BA, Media Management & Production BA (formerly Radio-TV BA)

*housed at UCF Downtown Campus



Program Updates or Overview

NEW COLLEGE OF SCIENCES PROGRAM – Effective Summer 24

Integrated Sciences and Technology BS (Program Director TBA)

- The IST BS is a multi-disciplinary bachelor of science degree intended for students who seek an academic background in preparation for a career or professional program that values a degree from a science, technology, engineering or mathematical science (i.e., STEM) related field.
- Each student has the opportunity to select an area of specialization and can work with an advisor to customize their coursework by integrating multiple areas of science, technology, engineering, and mathematics.
- This is an ideal option for students who may have interest in more than one STEM-based major offered by the university, but a single degree does not meet the needs of a student's plans.
- The Integrated Sciences & Technology B.S. degree offers two specializations designed to let students develop a program tailored to their career and professional goals.

Program Updates or Overview

NEW COS PROGRAM (cont'd)

Integrated Sciences and Technology BS (cont'd)

- Pulling from existing STEM-based courses, minors and certificate programs, this degree may be an especially attractive option for students preparing for a science-based industry or professional career, for those interested in a law degree or those who have continued interest teaching science education at the secondary-school level (separate certification is required). Students may also design their program to give them an ideal background for multiple areas of graduate study.

- This degree should be of particular interest to our students who start in a STEM-based degree but do not complete that program.
 - Includes, for example, prerequisite courses to calculus in meeting requirements
 - Allows flexibility to complete minor(s) or certificates in STEM as a way to meet requirements
 - Incorporates 42 upper-level hour university requirement in specialization requirements

Program Updates or Overview

NEW COS PROGRAM (cont'd)

Integrated Sciences and Technology BS (cont'd)

Common Program Prerequisites/Core Basic Level

- MAC 2311C (GEP)
- PHY 2048 and PHY 2048L (GEP)
- MAC 2312 and MAC 2313
- CHM 2045C and CHM 2046/L
- PHY 2049C

Program Updates or Overview

NEW COS PROGRAM (cont'd)

Integrated Sciences and Technology BS (cont'd)

Integrated Sciences Specialization

➤ Earn at least 54 credits (at least 42 upper level) from:

- AST, BCH, BOT, BSC, CHM, CHS, EVR, GLY, ISC, MAA, MAC, MAD, MAP, MAS, MAT, MET, MGF, MHF, MTF, OCE, PAZ, PCB, PHY, PHZ, PSC, STA, ZOO and may include courses from engineering, life sciences, biomedical sciences, biotechnology, health sciences or other, related natural or physical science-based programs. Additional courses may be approved by the program advisor.
- Students should consider STEM-based minors and certificates that complement the degree experience.

Program Updates or Overview

NEW COS PROGRAM (cont'd)

Integrated Sciences and Technology BS (cont'd)

Integrated Science Education Specialization

- Science Education Minor – must formally declare (21-22 hrs)
- Complete at least 33 hrs (at least 23-24 upper level) of STEM-based courses (see Integrated Sciences Specialization list above) and should be taken in the focus of instruction.
 - Note: This degree does not meet all requirements to qualify for teacher certification in the State of Florida. Contact Dr. Su Gao (Su.Gao@ucf.edu) in CCIE for more information about teacher certification.

Program Updates or Overview

NEW COS PROGRAM (cont'd)

Integrated Sciences and Technology BS (cont'd)

Capstone/High-Impact Learning Experience

- Three hours as approved by program advisor of:
 - Undergraduate Research in form of directed or independent study
 - Experiential Learning in the form of service learning, internship, co-operative experience or practicum
 - Study Abroad and Global Learning
 - STEM-based Integrative Experience Courses

Program Updates or Overview

Department of Anthropology

Program Revisions

Anthropology BA

➤ Change in Common Program Prerequisites (CPP)

- ANT2410 and ANT2511 (*formerly ANT2000 and ANT2511*)

➤ General Track

- Additional course options added to Area Study Requirement

➤ Methods and Practice Track

- Additional course options added to Applied, Field, or Lab Methods Requirement and Restricted Electives
- Updated list of High Impact Experience options

Program Updates or Overview

Department of Anthropology (cont'd)

Program Revisions (cont'd)

American Indian Studies Minor

- Additional course options for Restricted Electives

Anthropology of Pop Culture Minor

- Additional course options for Anthropology Restricted Electives

Human Biology Certificate (co-housed with Biology Dept)

- Clarification that majors other than Anthropology, Biology, and Biomedical Sciences must select courses from Group D
 - Note: This certificate has specific Restricted Elective groups for each major: Anthropology select from Group A, Biology from Group B, and Biomedical Science from Group C. All other majors must select from Group D.

Program Updates or Overview

Department of Anthropology (cont'd)

Program Revisions (cont'd)

Medical Anthropology Minor

- Possible Substitution: ANT 4802 Ethnographic Research and Field Methods may only be used as a substitute for a restricted elective if the ethnographic project tops focuses on Medical Anthropology. Student must get prior approval from the Medical Anthropology Minor advisor for this substitution.
 - Note: ANT 4802 offers students an opportunity to conduct a semester-long project in the course of learning anthropological research methodologies.

Native American Studies Certificate

- Additional course options for Restricted Electives

Program Updates or Overview

Department of Anthropology (cont'd)

New Courses

➤ **ANT3524C – Introduction to Human Osteology**

- PR: ANT2511 and sophomore standing or C.I.
- Examination of human skeletal biology and elemental identification.
 - Note: ANT4525C Human Osteology prerequisites revised:

PR: One of ANT2511 and junior standing, or ZOO3713C, 3733C, or C.I.
Also, content revised to focus on advanced human osteology.

- Offered Fall

➤ **ANT4196C – Animal Bone Archaeology: Introduction to Zooarchaeology**

- PR: ANT2140, junior standing, or C.I.
- Theories and methods used to analyze animal remains from archaeological contexts
- Offered Odd Fall

Program Updates or Overview

Department of Anthropology (cont'd)

New Courses (cont'd)

➤ **ANT4466 – Anthropology of Disability**

- PR: sophomore standing
- Disability examined in the U.S. and internationally from an anthropological perspective focusing on theory and method through ethnographic works.
- Offered in Even Fall

Course Revisions

➤ **ANT3010 – Digging Up Disney: An Archaeology of Walt Disney World, FL**

- Prerequisite change: PR: sophomore standing (*formerly PR: ANT2000*)

Program Updates or Overview

Department of Anthropology (cont'd)

Course Revisions (cont'd)

➤ **ANT 4525C Human Osteology**

- Prerequisite change: ANT 2511 and junior standing (or) ZOO 3713C (or) ZOO 3733C, or C.I. (*formerly ANT 4521 instead of ANT 2511*)

Program Updates or Overview (cont'd)

Department of Biology

Program Revisions

Biology B.S

- GEP 3 – SPC1603C no longer listed as preferred.
- Biology lab requirement clearly stated as also counting toward the additional biology elective section within chosen track.
- Section B laboratory list:
 - Added MCB3020C General Microbiology (5)
 - Deleted BOT4292CC Plant Microtechniques and ZOO3713C Comparative Vertebrate Anatomy (5)*
 - * ZOO3713L Comparative Vertebrate Anatomy Lab (1) remains on list
- Removal of 2.0 overall GPA requirement for the track

Program Updates or Overview (cont'd)

Department of Biology (cont'd)

Program Revisions (cont'd)

Biology B.S (cont'd)

General Biology Track

- Change of Upper Level Biology Restricted Elective Requirement: Combined lists so there is a single list from which students must take 16 hours. List updated to reflect new and deleted courses.

Ecology, Evolutionary and Conservation Biology Track

- Change in Required Elective: Complete 1 (formerly 2) of the following:
 - BSC 3052 Conservation Biology
 - ZOO 4513 Animal Behavior

Note: BSC 4821, PCB 4685, ZOO 4310C were removed from list.

- Change in Additional 7 Biology Electives: List removed. Remaining biology electives may include the plant and animal classes or the A and B lab courses if not already meeting required or restricted elective. Additional electives needed must be selected from General Biology Track's Restricted Elective List.

Program Updates or Overview (cont'd)

Department of Biology (cont'd)

Program Revisions (cont'd)

Biology B.S (cont'd)

Marine and Aquatic Biology Track

- Change in Restricted Elective Requirement: Hours required changed to **4** (from 12) to be taken from the course list.
- Addition of Additional Biology Elective Requirement: Earn at least 8 biology electives which may include the plant and animal classes or the A and B lab courses if not already meeting required or restricted elective. Additional electives needed must be selected from General Biology Track's Restricted Elective List.

Program Updates or Overview (cont'd)

Department of Biology (cont'd)

Program Revisions (cont'd)

Biology B.S (cont'd)

Plant Science Track

- Change in Restricted Elective Requirement: Select 3 courses from single course list.
- Addition of Additional Biology Elective Requirement: Earn at least 7 hours of biology electives which may include the plant and animal classes or the A and B lab courses if not already meeting required or restricted elective. Additional electives needed must be selected from General Biology Track's Restricted Elective List.
- Addition of Required Internship: BOT 4941 Arboretum Internship

Program Updates or Overview (cont'd)

Department of Biology (cont'd)

Program Revisions (cont'd)

Biology B.S (cont'd)

Pre-Health Professional Track

- Change in Required Elective Requirement: Select 2 courses from single course list.
- Change in Restricted Elective Requirement: Select 3 courses from single course list.
- Addition of Additional Biology Elective Requirement: Earn at least 6 hours of biology electives which may include the plant and animal classes or the A and B lab courses if not already meeting required or restricted elective. Additional electives needed must be selected from General Biology Track's Restricted Elective List.
- Addition of Required Internship: BOT 4941 Arboretum Internship

Program Updates or Overview (cont'd)

Department of Biology (cont'd)

Program Revisions (cont'd)

Biology B.S (cont'd)

Zoology and Pre-Veterinarian Science Track

- Change of Required Elective Requirement: Complete at least **2** (formerly 1) of the following: PCB3723, ZOO3001, ZOO3713, ZOO451
- Change of Restricted Elective Requirement: Complete at least **3** restricted electives from single list.
- Change in Additional Biology Elective Requirement: Earn at least **7 hours** of biology electives which may include the plant and animal classes or the A and B lab courses if not already meeting required or restricted elective. Additional electives needed must be selected from General Biology Track's Restricted Elective List.

Program Updates or Overview (cont'd)

Department of Biology (cont'd)

Program Revisions (cont'd)

Biology Minor

Change in residency requirement:

At least 15 hours in the minor must be taken at UCF within the Department of Biology. **If courses are not taken at UCF, student must take upper-level (3000/4000) biology department electives to complete the residency requirement.**

Program Updates or Overview (cont'd)

Department of Biology (cont'd)

New Courses

➤ **ENY 4455C Social Insect Behavior (4)**

- PR: Earn a minimum grade of “C” (2.0) in at least one of the following: ZOO 4513, ENY4004C, or PCB 4683
- Comparing the organization and evolution of diverse insect societies.
- Offered Fall

➤ **ZOO 3001 Integrated Principles of Zoology (3)**

- PR: BSC 2011C
- Provides an understanding of biological principles such as evolution, physiology, anatomy, genetics, phylogeny, and taxonomy as applied to Kingdom Animalia.
- Offered Fall and Spring
 - Note: previously taught as a Special Topics course

Program Updates or Overview (cont'd)

Department of Biology (cont'd)

New Courses

➤ **PCB 4932 ST: Population Biology (3)**

- PR: A grade of “B” (3.0) or better in PCB 3044; PR/CR: A grade of “B” or better in MAC 2233, MAC 2253, or MAC 2311C.
- The theory and models of population ecology—including population growth and regulation; competition; metapopulation ecology; and interspecific interactions.
- Offered Spring

Program Updates or Overview (cont'd)

Department of Biology (cont'd)

Course Revisions

➤ **BOT4223C Plant Anatomy**

- Change in prerequisite: PR: **A grade of "C" (2.0) or better in BOT 3015** (formerly PR: BOT 3802, BOT 3015, or C.I.)

➤ **BOT4503C Plant Physiology**

- Change in prerequisite: PR: A grade of "C" (2.0) or better in BOT 3015, **and PCB 3023 or PCB 3522** (formerly PR: A grade of "C" (2.0) or better in BOT 3015 or C.I.)

➤ **BOT4850 Medical Botany**

- Change in prerequisite: PR: **A grade of "C" (2.0) or better in BOT 3015 or BOT 3802, and PCB 3023 or PCB 3522** (formerly PR: PCB 3522 or a PCB 3023 or C.I.)

➤ **BOT4922 Plant Science Capstone**

- Change in prerequisite: PR: Biology Major, Plant Science Track, Senior standing, **and a "B" (3.0) or better in BOT 3015.** (formerly PR: ... Senior standing, and BOT 3015)

Program Updates or Overview (cont'd)

Department of Biology (cont'd)

Course Revisions

➤ PCB 3023 Molecular Cell Biology

- Change in prerequisites: PR: CHM 2210 or CHM 2205 or CHM 3120 with a “C” (2.0) or better, and a “C” (2.0) or better in both BSC 2010C and PCB 3063, or C.I.

➤ PCB 3063 Genetics

- Change in prerequisites: PR: A grade of “C” (2.0) or better in BSC 2011C or CHM 2046. (*formerly prerequisite or corequisite*)

➤ PCB 4514 Epigenetics

- Title change from Genetics II

Program Updates or Overview (cont'd)

Department of Chemistry

Program Revisions

Chemistry BA

- Changed department residency hours from 30 to **15** chemistry credits from the UCF Chemistry Department

Preprofessional Track

- Added courses to Chemistry Restricted Elective List:
 - CHM 4912 Directed Independent Research (maximum 6 credits)
 - ISC 4405 Fundamentals of Discipline-Based Education Research in STEM Disciplines (3)
- Changed required credits of Restricted Electives to **17** (formerly 22)

Program Updates or Overview (cont'd)

Department of Chemistry (cont'd)

Program Revisions (cont'd)

Chemistry BA (cont'd)

➤ Industry Track

- Added courses to Chemistry Restricted Elective List:
 - CHM 4427 Radiochemistry (3)
 - ISC 4405 Fundamentals of Discipline-Based Education Research in STEM Disciplines (3)
- Changed required credits of Restricted Electives to **33** (formerly 37)

Program Updates or Overview (cont'd)

Department of Chemistry (cont'd)

Program Revisions (cont'd)

Chemistry BA (cont'd)

➤ Education Track

- Added courses to Chemistry Restricted Elective List:
 - CHM 4427 Radiochemistry (3)
 - ISC 4405 Fundamentals of Discipline-Based Education Research in STEM Disciplines (3)
- Changed required credits of Restricted electives to **8** (formerly 5)
- Changed required credits of Education elective to **15** (formerly 18)

Program Updates or Overview (cont'd)

Department of Chemistry (cont'd)

Program Revisions (cont'd)

Chemistry BS – both General and Biochemistry Tracks

➤ Added course to Chemistry Restricted Elective List:

- ISC 4405 Fundamentals of Discipline-Based Education Research in STEM Disciplines (3)

Forensic Science BS Chemistry Track

➤ Added course to Restricted Elective List:

- ISC 4405 Fundamentals of Discipline-Based Education Research in STEM Disciplines (3)

Program Updates or Overview (cont'd)

Department of Chemistry (cont'd)

Program Revisions (cont'd)

Chemistry BS – both General and Biochemistry Tracks

➤ Added course to Chemistry Restricted Elective List:

- ISC 4405 Fundamentals of Discipline-Based Education Research in STEM Disciplines (3)

Chemistry Minor

➤ Added courses to Restricted Elective List:

- CHM 4427 Radiochemistry (3)
- ISC 4405 Fundamentals of Discipline-Based Education Research in STEM Disciplines (3)

Program Updates or Overview (cont'd)

Department of Chemistry (cont'd)

New Courses

➤ **CHM 1931 ST: Chemistry Foundations (eff. Summer 24)**

PR: Permission of the Department of Chemistry

Provides a path for student who are enrolled in CHM 2045C and at risk of earning a grade below “C” (2.0) in the course. A “C” is needed to continue to CHM 2046. Students at risk of earning below a “C” will be given the option to switch to CHM 1931. It will not replace CHM 2045C.

Offered Fall, Spring, and Summer

➤ **CHM 4932 ST: Organometallic Chemistry**

PR: “C” (2.0) or better in CHM 2211

Fundamentals and applications of transition metal-catalyzed reactions.

Counts toward restricted electives in chemistry and forensic science.

Offered Odd Spring

Program Updates or Overview (cont'd)

Department of Chemistry (cont'd)

New Courses (cont'd)

➤ **ISC 4405 Fundamentals of Discipline-Based Education Research (DBER) in STEM Disciplines**

PR: ENC 1102

A variety of topics, tools, methodologies, theories, and practices related to the field of Discipline-Based Educational Research in STEM disciplines.

This course supports the growth of the STEM-DBER community at UCF by providing undergraduates interested in STEM education research with the foundation they need to conduct and evaluate discipline-based education research.

This course is open to all students who meet the pre-requisites, but we anticipate that undergraduate students majoring in Chemistry, Physics, Biology, Mathematics, or Engineering disciplines will enroll if they are interested in educational research.

Revised Course

➤ **CHM 3422 Applied Physical Chemistry**

- Change in prerequisite: PR: "C" (2.0) or better in all of the following: CHM 2046, PHY 2049C or **PHY 2054C**, and MAC 2311.

Program Updates or Overview (cont'd)

Department of Math

Program Revisions

Mathematics BS

- Change in Common Program Prerequisites
 - COP 3502C replaced by COP 2500C Concepts in Computer Science

New Course

➤ MAP 4413 Fourier Analysis (3)

PR: Complete all of the following: MAC 2313, MAP 2302, MAS 3105

Fourier series, convergence, applications, Fourier transform, Finite Fourier Transform

Offered Spring

Program Updates or Overview (cont'd)

Nicholson School of Communication and Media (NSCM)

Program Revisions

Communication BA

- Business and Professional Track
 - Additional Course Option: Complete at least three of: COM 4110, COM 4120, COM 4332, **SPC 3445** (added SPC 3445 to list)

Digital Media BA

- Decreased the total number of credits in the major **by six credits for each track**
- Changed name of Web and Social Platforms Track to **Web and Interactive Media Track**

Program Updates or Overview

Nicholson School of Communication and Media (NSCM) (cont'd)

Program Revisions (cont'd)

Journalism BA

- Application deadline change: **no longer admitting for summer term**
 - October 1 for admission to next spring term
 - February 1 for admission to next fall term
- New admission requirement: Students must complete or be enrolled into and complete JOU 2100 with a “C” or better (if in progress at the time of admission, students who do not earn a “C” or better will be removed from the program)
- Changed admission requirement: Students must pass grammar proficiency exam administered by UCF’s Testing Center unless they have AP or IB credit in English or a **“B” or better** (*formerly “A” or better*) in both ENC 1101 and 1102.

Program Updates or Overview (cont'd)

Nicholson School of Communication and Media (NSCM) (cont'd)

Program Revisions (cont'd)

Media Production and Management BA

- Alternative to required minor: When no official minor is offered, students may complete an **18-hour area of concentration** approved by the Program Coordinator.
- **Production Track**
 - New requirement: One-credit Studio News Crew Practicum
 - Addition to Group A Electives: RTV 4293 Elements of Comedy Production (3)
- **Media Management and Operations Track**
 - Requirement Replacement: RTV 3531 and 3576 **replaced by MMC 4263** New Media Technologies (4)
 - Change in Group A Electives:
 - “Earn at least 16 credits” changed to “Earn at least **15** credits”
 - Addition of RTV 3945 WUCF Public Media Practicum (1) and RTV 4293 Elements of Comedy Production (3)

Program Updates or Overview (cont'd)

Nicholson School of Communication and Media (NSCM) (cont'd)

Program Revisions (cont'd)

Cinema Studies Minor

- Requirement Replacement: FIL 1000 replaced by **FIL 3006** Art of Cinema as a Required Course

Intercultural Communication Minor

- Changes to Specialization B: Study Local
 - Removed High Impact Requirement
 - Changed hour requirement from 9 to **12** hours earned from course list
 - Modified statement “**Three credit hours of approved NSCM study abroad courses or** additional courses can be taken as approved by an advisor.”

Program Updates or Overview (cont'd)

Nicholson School of Communication and Media (NSCM) (cont'd)

Course Revisions – Highlights

➤ JOU 2100 News Writing

- Change of title and number: Changed from News Reporting to News Writing; dropped C designation
- Change of prerequisite: **A grade of “B” (3.0)** (changed from “A”) **or better in ENC 1101 and 1102** or a “B” or better in ENC 3250 or LIN 3673 or a passing score on the Accuplacer Exam. **Also removed major restrictions**. Now open to any major.

- Multiple Courses with various NSCM major restrictions: due to many changes in recent years, program titles were updated in many NSCM courses.

Program Updates or Overview (cont'd)

Department of Psychology

Program Revisions

Psychology BS

- Replacement of Diversity Elective Choice: SOP3742 Psychology of Women replaced by **SOP 3702 Psychology of Gender**
- Clinical Psychology Track
 - Added course to Track Elective Choices: **CLP 4114 Feeding and Eating Disorders**

Psychology Minor

- Students may make a request to the Psychology Department's Director of Academic Advising to be granted the use of one C- toward the minor requirements.
- Note: This statement was added to the Psychology BS last year.

Program Updates or Overview (cont'd)

Department of Psychology (cont'd)

New Courses

➤ **CLP 4114 Feeding and Eating Disorders (3)**

PR: PSY 2012

Overview of the causes and treatments associated with eating disorders and subclinical forms of problematic eating behaviors and their surrounding factors and issues.

Offered Fall

➤ **SOP 3702 Psychology of Gender (3)**

PR: PSY 2012

Exploration of the psychological study of gender, from developmental, biological, social, and cultural perspectives.

Offered Fall, Spring, and Summer

Program Updates or Overview (cont'd)

Department of Sociology

New Course

➤ **SYP 4411 Sociology of War (3)**

PR: Complete one of the following; SYG 2000, ANT 2000 or PSY 2012, or Junior Standing

Sociological investigation of social institutions of war and modern military with attention to the (re)production of social inequality with militarism and active war.

Offered Occasionally

Program Updates or Overview (cont'd)

Department of Statistics and Data Science

New Program

- **Data Science Minor – 19-20 hours plus 15 hours or prerequisites**
 - Cooperative effort between Mathematics, Statistics and Data Science, and Computer Science, and Industrial Engineering Departments.
 - Prerequisites: MAC 2311C, MAC 2312, MAC 2313, and STA 2023
 - 19-20 hours required beyond prerequisites
 - Grade of “C” or better required in all courses used to satisfy the minor.
 - At least 12 hours of upper division courses used in the minor must be taken at UCF.



Question and Answer

- Email leekirkpat@ucf.edu if you have questions.

Thank you!

Thank
you