College of Sciences (COS)

Lee Anne Kirkpatrick
Director, College of Sciences Advising Services (COSAS)
College Overview

» Degree Programs

Social Sciences
› Anthropology (BA, BS)
› SPSIA (Political Science BA, International & Global St BA)
› Psychology (BS)
› Sociology (Sociology BA, Social Sciences BS)

» Contact Information

› Website: sciences.ucf.edu/cosas/
› cosas@ucf.edu
› CSB 250 (temporarily in CSB 201 until Fall 21)
› 407-823-6181 [currently not taking calls at general number, referring to Virtual Zoom Front Office (link on website) or email]
College Overview

Degree Programs (cont’d)

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

Communication and Media
- NSCM (Advertising/Public Relations BA, Communication & Conflict BA, Digital Media BA, Film (BA, BFA) Human Communication BA, Journalism BA, Radio/Television BA (expected name change pending)
Organizational Updates

» Former Department of Political Science is now the School of Politics, Security, and International Affairs (SPSIA)

» Former Department of Statistics is now Department of Statistics and Data Science

» Nicholson School of Communication and Media (NSCM) is now entirely housed in the College of Sciences
  › Includes Digital Media and Film programs (formerly in College of Arts & Humanities)
Program Updates

» Chemistry – Course Changes

› Effective Fall 21: Change of prerequisite for CHM2045C

› PR: “C” (2.0) or better in CHM 1025 (or CHM 1931 offered Summer 21) or a passing score in the Chemistry Placement Exam. Also, “C” (2.0) or better in MAC 1105 or math placement beyond MAC 1105.

› CHM1025 is NEW course: Introduction to Chemistry: PR: C (2.0) or better in MAT 1033 or math placement higher than MAT 1033.

› CHM 2040 will no longer be offered; last offering of CHM 2041 is Fall 21

› Beginning Spring 22: students will be able to enroll in CHM 2045C if they have “C” or better in CHM 2040 but do not have CHM 2041 without taking CHM 1025. Prerequisite will be adjusted to allow “C” or better in either CHM 2040 or CHM 1025.
Program Updates

» Chemistry - Course Changes (cont’d)
  › Grade forgiveness re. CHM 2040 and 2041
    › Now: substitution of CHM 2045C for CHM 2040 can be requested; prerequisite for CHM 2045C must be met.
    › Spring 22: substitution of CHM 2045C for CHM 2041 can be requested
  › Other Chemistry Courses
    › Most prerequisites now require a “C” (2.0) or better, including those for CHM 2045C, 2046, 2210, 2211.
Program Updates

» Chemistry – Course Changes (cont’d)
  › Forensic Science
    › CHS 3501 Introduction to Forensic Science: prerequisite change
      › PR or CR: ENC 1101
      › Allows FTIC to take course first semester and find out more about major
Program Updates

» Mathematics - Program Changes
  › NEW Track: Mathematical Data Analysis
    › Emphasizes mathematical applications in data analysis
    › Key specialized courses: Machine Learning, Data Modeling, Topological Data Analysis
  › Change to Mathematics Biology Track
    › Reduced track hours from 45 to 37
    › Increased flexibility in statistics requirement
  › Change to Engineering/Physics Track
    › Reduced track hours from 39 to 36
    › EGN 3321 Engineering Analysis-Dynamics no longer required but satisfies restricted elective
  › Added Capstone: MAA 4226 Advanced Calculus I
  › Change to Mathematical Biology Minor
    › Reduced to 21 hours from 24
Program Updates

» Mathematics – Course Changes
   › New courses in mathematical modeling to support new track
   › Revision to the mathematical biology courses to appeal to non-math majors; include topics such as modeling for spread of infectious disease and evolutionary game theory.
Program Updates

» NSCM – Program Changes
  › All NSCM majors
    › GEP Math recommendation changed from
      › MAC 1105C
    › to
      › selection from MAC 1105C, MGF 1106, or MGF 1107
Program Updates

» NSCM – Program Changes (cont’d)
  › Advertising-Public Relations BA – Limited Access
    › GEP and Basic Core Statistics requirement changed from selection of
      › STA 2014C or 2023
      › to
      › STA 2014C or more advanced STA course (includes 2023)
  › Advanced Core Requirement
    › Replacing MMC 3420 Mass Media Research Methods
    › with
    › new course PUR 3500 Public Relations Research Methods → PUR 3500 is designed
to be specifically relevant to Ad-PR industry.
Program Updates

» NSCM – Program Changes (cont’d)
   › Advertising-Public Relations BA (cont’d)
       › The Liberal Arts 56-hour requirement has been eliminated. Students still need to complete 72 hours outside of NSCM.
Program Updates

» NSCM – Program Changes (cont’d)
  › Communication and Conflict BA
    › Additional choices for requirements and restricted electives allowing for more flexibility and ease in scheduling which supports shorter time to degree.
    › Major GPA calculation changed from “all attempts” to including only courses used to satisfy major requirements.
Program Updates

» NSCM – Program Changes (cont’d)
  › Digital Media BA
    › 1- year foreign language proficiency can be met by ASL
    › Course prerequisites: many changes, including
      › DIG 2030, 2109, and 2500 fundamentals courses changed from
      › PR or CR: MAC 1105C and DIG 2000
      › to
      › PR: MAC 1105C and PR or CR: DIG 2000
Program Updates

» NSCM – Program Changes (cont’d)
  › Human Communication BA
    › DIG and FIL courses added to External Restricted Elective choices
    › Major GPA calculation changed from “all attempts” to including only courses used to satisfy major requirements.
Program Updates

» NSCM – Program Changes (cont’d)
  › Film BA (Open Access) and Film BFA (Limited Access)
    › 1-year foreign language proficiency can be met by ASL
    › Adjusted hours in restricted elective areas and added more course selections to allow more access to courses so students can more easily progress to graduation.
    › Course prerequisites: most FIL courses are restricted to Film BA, Film BFA, or Film BFA Pending majors. Some allow Cinema Studies minors. Prerequisites were updated to correspond with the recent addition of Film BFA Pending.
Program Updates

» NSCM – Program Changes (cont’d)
  › Journalism BA – Limited Access
    › The Liberal Arts 56-hour requirement has been eliminated. Students still need to complete 72 hours outside of NSCM.
Program Updates

» NSCM – Program Changes (cont’d)
  › Radio-Television BA – Limited Access
    › NAME CHANGE (pending) to Media Production and Management BA
    › “Radio-Television” no longer accurately reflects the scope of the curriculum. New name encompasses podcasting and production for various technologies available today.
    › The Liberal Arts 56-hour requirement has been eliminated. Students still need to complete 72 hours outside of NSCM.
Program Updates

» Physics – Course Changes

› New versions of both general physics sequences
  › Continuing “C” combined lecture/lab “Studio” versions of sequences but have title changes
  › PHY 2053C, 2054C: College Physics I and II Studio
  › PHY 2048C, 2049C: General Physics Using Calculus I and II Studio
  › Single enrollment of lecture and selected related lab
  › Additional offerings of independent lecture and labs available beginning Fall 21
    › PHY 2053, 2053L: College Physics I, College Physics I Lab
    › PHY 2054, 2054L: College Physics II, College Physics II Lab
    › PHY 2048, 2048L: General Physics Using Calculus I, General Physics Using Calculus I Lab
    › PHY 2049, 2049L: General Physics Using Calculus II, General Physics Using Calculus II Lab
Program Updates

» Physics – Course Changes (cont’d)
  › New versions of both general physics sequences (cont’d)
    › Note on Enrollment
      › Enrollment into the independent lectures PHY 2053, 2054, 2048, and 2049 each
        require student to select a recitation (related component)
      › After enrolling in independent lecture and recitation, student then needs to
        separately enroll for the corresponding lab, PHY 2053L, 2054L, 2048L, or 2049L
        (if required for their program; GEP does not require lab)
      › Labs require lecture as corequisite (or prerequisite)
Program Updates

» Physics – Course Changes (cont’d)

› Prerequisites for College Physics

› Separate Lecture and Laboratory

› PHY 2053 PR: MAC1105C and MAC1114C or equivalent
› PHY 2053L PR or CR: PHY2053 with grade of “C” (2.0) or better*
› PHY 2054 PR: PHY2053 or PHY2053C with “C” (2.0) or better AND PR or CR: PHY2053L
› PHY 2054L PR or CR: PHY2054 with a grade of “C” (2.0) or better

› Studio

› PHY 2053C PR: MAC1105C and MAC1114C or equivalent
› PHY 2054C PR: PHY2053C or (PHY2053 and PHY2053L) with “C” (2.0) or better

› *This acknowledges that a student could take the lecture concurrent with the lab and fail the lecture; however, we don’t want to allow a student to take the lab if they were previously unsuccessful (below “C”) in the lecture.
Program Updates

Physics – Course Changes (cont’d)

- Prerequisites for General Physics Using Calculus
  - Separate Lecture and Laboratory
    - PHY 2048 PR: MAC2311C (or equivalent) with grade of “C” (2.0) or better
    - PHY 2048L PR or CR: PHY2048 with grade of “C” (2.0) or better*
    - PHY 2049 PR: (PHY2048 or PHY2048C) and MAC2312 both with grades of “C” (2.0) or better; PR or CR: PHY2048L
    - PHY 2049L PR or CR: PHY2049 with grade “C” (2.0) or better*
  - Studio
    - PHY 2048C PR: MAC 2311C (or equivalent) with grade of “C” (2.0) or better
    - PHY 2049C PR: PHY2048C or (PHY2048 and PHY2048L) and MAC2312 all with grade of “C” or better

*This acknowledges that a student could take the lecture concurrent with the lab and fail the lecture; however, we don’t want to allow a student to take the lab if they were previously unsuccessful (below “C”) in the lecture.
Program Updates

- School of Politics, Security, and International Affairs (SPSIA) – Program Changes
  - Political Science B.A. - NEW Track: Intelligence and National Security
    - For students who wish to pursue careers in national security and the intelligence community
    - Meets a primary goal of the IC CAE grant by expanding and strengthening intelligence curricula at minority-serving and/or under-resourced institutions
  - NEW Certificate: Kurdish Studies – 12 hours
    - Interdisciplinary certificate including course options from politics, history, anthropology, religion, and Arabic and Kurdish languages
    - For students seeking careers in government, academic, non-profit organizations, and private companies working on security and humanitarian issues
Program Updates

SPSIA – Program Changes (cont’d)

NEW Certificate: Politics of Race, Ethnicity, Gender, and Identity – 12 hours

- Intended for students who seek to understand sources and impact of institutional racism and discrimination and identity politics
- Interdisciplinary course options including anthropological, sociological, political, and historical approaches to the topic
Program Updates

SPSIA – Course Changes

› New courses developed to meet demand for more offerings in Intelligence Studies
› Prefix change in key course in Intelligence Studies: INR 4364 changed to POS 4364 The Intelligence Community
› New course POT 3206, Political Ideals and the U.S. Constitution
   › Not just for Political Science majors; also developed for Social Science Education majors and Civics Teaching Certificate
   › For any student interested in U.S. history, government, and civics
Program Updates

» Statistics and Data Science – Program Changes

› NEW Degree in Data Sciences (B.S.)
  › Data Sciences is an emerging discipline that seeks to infer insights from large amounts of data (“big data”) by using various statistical techniques and algorithms.
  › Aims to train students to develop algorithms and computerized systems to facilitate the discovery of information from big data
  › Interdisciplinary degree: offered jointly by both College of Sciences and College of Engineering and Computer Science across the departments of Computer Science, Statistics and Data Science, Mathematics, and Industrial Engineering and Management Systems
Policy and Procedures Update

» UCF recently changed starting date for catalog requirements to the fall term.

› In the past, prerequisite changes were enforced beginning summer terms. Beginning this year, changes are not enforced until Fall 21.

› In other words, Summer 21 courses follow 20-21 prerequisites and Fall 21 courses follow 21-22 prerequisites.

› New students entering UCF Summer 21 will follow program requirements for their major from the upcoming 21-22 catalog.
Advising Initiatives

» Restructured Advising in COSAS:
  › Starting with 20-21 admissions, new FTICs have an assigned COSAS advisor from orientation through graduation.
  › Similar to the FTICs, starting with 21-22 admissions, new Transfers will have assigned COSAS advisor from orientation through graduation.
  › Four COSAS Advising Teams: each team has two advisors and an Advising Lead
Key Takeaway Points

» New programs:
  › Statistics and Data Science: Data Sciences BS
  › Track in Mathematics BS: Mathematical Data Analysis
  › Track in Political Science BA: Intelligence and National Security
  › Certificates in Kurdish Studies and Politics of Race, Ethnicity, Gender, and Identity

» Significant changes in chemistry and physics sequences impacting many programs

» ASL now satisfies 1-year foreign language proficiency in all COS programs that have requirement (most recently, Digital Media and Film).

» Many changes to course prerequisites college-wide, effective Fall 21 (not Summer 21 as in past due to UCF catalog year start date change to fall term)

» Any questions about the information presented here, please email leekirkpat@ucf.edu
Questions?

Drop your questions in the Zoom chat window.