- **CELLULAR SIGNALING** CHEM F675-001 CRN 38902 3 CREDITS Jan 10, 2022-Apr 30, 2022
- 2. in person lectures
- 3. INSTRUCTOR: LAWRENCE K. DUFFY **246 WRRB**

lkduffy@alaska.edu 907-474-7525

- OFFICE HOURS: Wednesday 10:30 AM 4.
- COURSE DESCRIPTION: Cellular signaling is important in molecular systems and constitutes a central topic in biochemical and medical studies. The course discuses the basic concept of signals, signal transduction, role of proteins, modification of proteins for regulation andrelationship to selected diseases in humans. Major topics include G-Proteins, Second Messengers, Protein Kinases, Tyrosine Kinase, 7 Transmembrane Domain proteins, Signal Transduction by Proteolysis and Neurotransmiters.
- TEXTBOOK: Cellular Signal Processing by Friedrich Marks 6. Ursula Klingmuller and Karin Muller - Decker. Second Edition, Routledge, 2017 Taylor and Francis. ISBN 978-0-8153-4534-3
- 7. LEARNING OUTCOMES and COURSE GOALS
  - \* Develop an overview of molecular signaling
  - \* Comprehend the coordination of biochemical pathways
  - \* Ability to explain the molecular basis of cellular signaling
  - \* Ability to explain the signal disruptions in diseases
- INSTRUCTIONAL METHODS: Lectures by instructor and discussions. Review of case studies
- 9. EVALUATION: Three exams will be given.

Student participation in discussions will be noted

Grades will be bases on the +/- system

follow the UAF Incomplete A

Grade Policy

10. STUDENT PROTECTIONS: Every qualified student is welcome. Veteran's services, rural services and ?

in the UAF catalog; I

I am happy to work with;

disability services to arrange reasonable accommodations. Students are protected by Title IX. Minors have additional protections. Please check the UAF handbook. www.uaf.edu/handbook

11. Technology: Access to internet to communicate with instructor.



## **UAF** Governance

UAF Governance Home / Faculty Senate / Curriculum / Syllabus Addendum

# Syllabus Addendum

The UAF Faculty Senate approved the concept of the syllabus addendum in May 2020 년 . The syllabus addendum contains non-academic information for all UAF syllabi. See a Google Doc version of the syllabus addendum linked here c7.

### Syllabus Addendum (Revised 8/18/2021)

COVID-19 statement: Students should keep up-to-date on the university's policies, practices, and mandates related to COVID-19 by regularly checking this website: https://sites.google.com/alaska.edu/coronavirus/uaf?authuser=0

Further, students are expected to adhere to the university's policies, practices, and mandates and are subject to disciplinary actions if they do

Student protections statement: UAF embraces and grows a culture of respect, diversity, inclusion, and caring. Students at this university are protected against sexual harassment and discrimination (Title IX). Faculty members are designated as responsible employees which means they are required to report sexual misconduct. Graduate teaching assistants do not share the same reporting obligations. For more information on your rights as a student and the resources available to you to resolve problems, please go to the following site: https://catalog.uaf.edu/academics-regulations/students-rights-responsibilities/.

Disability services statement: I will work with the Office of Disability Services to provide reasonable accommodation to students with

#### Student Academic Support:

- Speaking Center (907-474-5470, uaf-speakingcenter@alaska.edu, Gruening 507)
- Writing Center (907-474-5314, uaf-writing-center@alaske.edu, Gruening 8th floor)
- UAF Math Services, <u>uafmathstatlab@gmail.com</u>, 区 Chapman Building (for math fee paying students only)
- The Debbie Moses Learning Center at CTC (907-455-2860, 604 Barnette St, Room 120, https://www.ctc.uaf.edu/student-
- For more information and resources, please see the Academic Advising Resource List (https://www.uaf.edu/advising/lr/SKM\_364e19011717281.pdf)

#### Student Resources:

- Disability Services (907-474-5655, <u>uaf-disability-services@alaska.edu</u>, Whitaker 208)
- Student Health & Counseling [6 free counseling sessions] (907-474-7043, <a href="https://www.uaf.edu/chc/appointments.php">https://www.uaf.edu/chc/appointments.php</a>, Whitaker 203)
- Center for Student Rights and Responsibilities (907-474-7317, uaf-studentrights@alaska.edu, Elelson 110)
- Associated Students of the University of Alaska Fairbanks (ASUAF) or ASUAF Student Government (907-474-

Nondiscrimination statement: The University of Alaska is an affirmative action/equal opportunity employer and educational institution. The University of Alaska does not discriminate on the basis of race, religion, color, national origin, citizenship, age, sex, physical or mental disability, status as a protected veteran, marital status, changes in marital status, pregnancy, childbirth or related medical conditions, parenthood, sexual orientation, gender identity, political affiliation or belief, genetic information, or other legally protected status. The University's commitment to nondiscrimination, including against sex discrimination, applies to students, employees, and applicants for admission and employment. Contact information, applicable laws, and complaint procedures are included on UA's statement of nondiscrimination available at www.alaska.edu/nondiscrimination. For more information, contact:

**UAF Department of Equity and Compliance** 1692 Tok Lane, 3rd floor, Constitution Hall, Fairbanks, AK 99775 907-474-7300 uaf-deo@alaska.edu

## Additional syllabi statement for courses including off-campus programs and research activities:

University Sponsored Off-Campus Programs and Research Activities

We want you to know that:

- 1. UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/nondiscrimination.
- 2. Incidents can be reported to your university's Equity and Compliance office (listed below) or online reporting portal. University of Alaska takes immediate, effective, and appropriate action to respond to reported acts of discrimination and harassment.
- 3. There are supportive measures available to individuals that may have experienced discrimination.
- 4. University of Alaska's Board of Regents' Policy & University Regulations (UA BoR P&R) 01.02.020 Nondiscrimination and 01.04 Sex and Gender-Based Discrimination Under Title IX, go to: http://alaska.edu/bor/policy-regulations/.
- 5. UA BoR P&R apply at all university owned or operated sites, university sanctioned events, clinical sites and during all academic or research related travel that are university sponsored.

For further information on your rights and resources click here.

### **Contact information**

Governance Office Email: acilndsoe@alaska.edu Phone: 907-474-7964

Physical address: 328 Signers Hall 1810 Salcha Street

Mailing address: Fairbanks, AK 99775





The University of Alaska Fairbanks is accredited by the Northwest Commission on Colleges and Universities. UAF is an AA/EO employer and educational institution and prohibits idegal discrimination against any individual. Learn more about UA's notice of nondiscrimination. UA is committed to providing accessible websites. Learn poore about UA's notice of web accessibility.

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