

# FSCI - FOUNDATIONAL SCIENCES (FSCI)

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## FSCI 281 Oceans and One Health Sophomore Seminar

**Credit 1. 1 Lecture Hour.** Science communications; including compilation and discussion of current topics related to human, animal or environmental health issues associated with coastal communities through weekly literature searches and readings; emphasis on scientific communication with peers in both oral and written forms. **Prerequisite:** Sophomore classification or approval of instructor.

## FSCI 285 Directed Studies

**Credits 1 to 6. 1 to 6 Other Hours.** Directed studies and problems suited to analysis by individuals or small groups concerning special aspects of the coastal environment and human health. **Prerequisite:** Approval of instructor.

## FSCI 289 Special Topics in...

**Credits 1 to 4. 1 to 4 Other Hours.** Study of selected topics in an identified area of foundational sciences. May be taken for credit up to eight hours. **Prerequisite:** Approval of instructor.

## FSCI 334 One Health in Coastal Regions

**Credits 3. 3 Lecture Hours.** Exploration of One Health issues and the human-animal-ecosystem interface affecting populations in coastal regions; study of how these topics can be applied to address regional and global health and environmental challenges. **Prerequisite:** BIOL 111.

## FSCI 360 Biochemistry

**Credits 4. 4 Lecture Hours.** Structure, function and reactivity of proteins, carbohydrates, lipids and nucleic acids; role of pH in biochemical reactions; enzyme kinetics and regulation; membrane structure and function; overview of the metabolic pathways; carbohydrate metabolism; lipid metabolism; metabolism of nitrogen containing compounds; nucleic acid synthesis. **Prerequisites:** BIOL 112 or MARB 215, and CHEM 228; junior or senior classification.

## FSCI 428 Coastal Development and Human Health

**Credits 3. 2 Lecture Hours. 2 Lab Hours.** Exploration of public environmental health issues associated with urbanization in coastal areas; topics address population pressures on coasts, infectious and chronic disease, the natural and built environment, toxicology, sanitation, forms and media of pollution, and the application of environmental health science to coastal zone management. **Prerequisites:** CHEM 120 or equivalent; BIOL 112; junior or senior classification or approval of instructor.

## FSCI 485 Directed Studies

**Credits 1 to 6. 1 to 6 Other Hours.** Directed studies and problems suited to analysis by individuals or small groups concerning special aspects of the coastal environment and human health. **Prerequisite:** Approval of instructor.

## FSCI 489 Special Topics in...

**Credits 1 to 4. 1 to 4 Other Hours.** Study of selected topics in an identified area of foundational sciences. May be taken for credit up to eight hours. **Prerequisite:** Junior or senior classification or approval of instructor.

## FSCI 491 Research

**Credits 0 to 4. 0 to 4 Other Hours.** Research conducted under the direction of faculty member in Foundational Sciences. Registration in multiple sections of this course is possible within a given semester provided that the per semester credit hour limit is not exceeded. May be taken for credit up to four hours. **Prerequisite:** Junior or senior classification or approval of instructor.