

tems. Numerical techniques are used to solve complex equilibrium and to interpret titration data. *Prerequisite: Chemistry 125, 126 (or equivalent), 203 (may be taken concurrently), and Information Science and Technology 102 (may be taken concurrently).*

290, 390, 490 Directed Study (1-3) (1-3) (1-3)

An opportunity for supervised, independent study of a particular topic based on the interest of the student and the availability and approval of the faculty.

322 Instrumental Analysis (4)

A survey of analytical methods using instrumental techniques such as spectrophotometry, polarography and conductimetry. *Prerequisite: Chemistry 125, 126 (or equivalent). Offered alternate spring terms.*

408 Introduction to Biochemistry (4)

An introductory survey of the molecular structure and function of biologically important molecules, metabolic cycles, and other topics of a rapidly expanding field. *Prerequisite: Chemistry 205. Offered alternate years.*

411-412 Physical Chemistry (4) (4)

An introduction to the detailed study of chemical thermodynamics, kinetics, electro-chemistry, the solid and gaseous states, and spectra. *Prerequisite: Chemistry 125, 126 (or equivalent), Chemistry 203 (or permission), and Mathematics 236. May be taken concurrently with Mathematics 236.*

426 Advanced Inorganic Chemistry (4)

A survey course including modern theories of bonding and the chemistry of transition metal compounds, including organometallics. *Prerequisite: Chemistry 125, 126 (or equivalent) and junior standing. Offered alternate years.*

Communication Studies

Associate Professor Thomas

Assistant Professor da Costa

Instructor Ash

Instructor Bartlett

Instructor McCown

Instructor Swartzlander

Adjunct Instructor Wurdeman

Doane College provides courses and experiences leading to majors and minors in Organizational Communication, Mass Communication, and Speech Communication.

These courses of study prepare students for a wide range of professional pursuits in or associated with such areas as advertising, public relations, journalism, broadcasting, corporate video, and audio production. A command of the English language, both written and spoken, an interest in business and/or non-profit organizations, and interpersonal communication skills are necessary prerequisites for work in communication fields.

ORGANIZATIONAL COMMUNICATION

This major is designed for students interested in serving as communication experts for business and non-profit organizations — often representing organizations or events, or improving communication in a workplace. Interest and skills in writing, and in interacting with and motivating people, are among the attributes necessary for this work.

Requirements for the Organizational Communication Major:

Complete the following courses (53 credits):

1. Mass Communication/English 113, Mass Communication 223, 320, 345, 421 (minimum of three credits).
2. Speech Communication 112, 210, 216, 296, 336, 342, 348 (or 321), 351, 385, 424 (or 435).
3. Complete either Business 212 and 242 or Business 251 and 324.
4. Six credits chosen from the following: Psychology 256, 365, Psychology/Sociology 336, Sociology 324.

Requirements for the Organizational Communication Minor:

Complete the following courses (18 credits):

1. Business 242.
2. Speech Communication 216, 336, 342.
3. Mass Communication 320.
4. Psychology/Sociology 336.

MASS COMMUNICATION (CMM)

Requirements for the Mass Communication Major:

1. Complete the following core requirements:
Mass Communication 107, 232, 242, 301, 353, 418, 445, Mass Communication/English 113.
2. Complete the following cognates: Speech Communication 351, 385.
3. Complete one emphasis chosen from the following:
 - a. **Print Media** – English/Mass Communication 213, Mass Communication 214, 223, one credit each of practica 291, 319, 419, and Activity 135.
 - b. **Electronic Media:** Mass Communication 235, 342, 496, one credit each of practica 293, 323, 423, and Activity 131.
 - c. **General Media:** Choose a minimum of 12 credit hours from Mass Communication 206, 214, 223, 235, 320, 342, 496, English/Mass Communication 213 and 2 credit hours of practicum or activity credits from two different areas:
 - i) Print – Mass Communication 291, 319, 419, Activity 135.
 - ii) Radio – Mass Communication 323, 423, Activity 131.
 - iii) Television – Mass Communication 293.