

- CO 280 Gender Communication
- CO/ENWR 306 Writing for the Print Media
- CO 308 Communication Ethics
- CO 340 Interpersonal Communication Theory

Note: A maximum of 3 semester credits in forensics at the 200-level or above may apply towards the communication studies minor. Forensics at the 200-level or above may be substituted for CO 225.

### Minor in TV Production

#### I. Minor Program Requirements

- 18 credits, including:
- CO 310 Mass Media
- CO 165 Fundamentals of TV & Film Production I
- CO 166 Fundamentals of TV & Film Production II
- CO 265 Basic Single Camera Production
- CO 425 Career internship at TV station
- CO/ENWR 306 Writing for the Print Media

### Curriculum in Communication Studies for the Associate of Arts Degree

#### Program Requirements

- Twenty-four semester credits in communication studies, including:
- CO 101 Basic Communication
- CO 206 Small Group Communication
- CO 225 Professional Communication
- CO 280 Gender Communication
- CO/ENWR 306 Writing for the Print Media
- CO 308 Communication Ethics
- CO 340 Interpersonal Communication Theory
- CO 414 Human Communication Theory

Note: All degree students should review requirements for graduation as described in this catalog.

## COMMUNITY HEALTH

TODD DAMROW, PH.D., M.P.H.  
LAURI FAHLBERG, ED.D.  
KELLY PARSLEY, M.A.

### Mission

The Community Health and Health Science (page 61) majors are designed for students seeking to enter the health professions. If the United States is to reverse the present trend of deteriorating health of its citizens, and do so within an affordable framework, the next generation of health professionals must be conversant with a new health promotion paradigm. The Community Health and Health Science majors introduce students to this new paradigm through an integrated biological, psychological, and sociological approach to promoting health that encourages a shift from reliance primarily on dollars and technology to informed citizen participation.

The Community Health major is designed for students interested in becoming health education specialists. Health education specialists primarily work for organizations in the community that focus on improving health. The Health Science major is designed for students seeking to pursue clinical fields such as physical therapy, physician's assistant, optometry, occupational therapy, and veterinary medicine.

### Goals

1. To provide students with the specialized knowledge, skills, and global perspective they need to pursue their chosen health profession.

2. To provide students with practical experience that will supplement their academic work and facilitate their entry into a chosen health career.
3. To guide students in developing and articulating a personal and professional perspective that is relevant to improving the health of citizens locally, nationally, and globally.

### Major in Community Health (CHS)

#### Common Program Requirements: (20 credits)

- HS 198 Exploration of Health/Wellness Issues
- HS 230 Introduction to Epidemiology
- HS 335 Health Policy, Management and Issues: National and Global Perspectives
- HS/NU 307 Evidence Based Research Methods in Health Science
- MA 207 Statistics
- PHIL 208 Bioethics
- or PHIL 207 Environmental Ethics
- or TH 222 Health Care Ethics
- PSY 105 General Psychology

#### Required Courses: (30 credits)

- HPE 234 Sports Nutrition & Conditioning
- HPE 214 School Health Programs
- CHS 330 Community Health Methods
- CHS 333 Planning, Implementing & Evaluating Health Programs
- ENWR 303 Grant Writing
- CHS 405 Senior Seminar
- CHS 410 Mgmt of Health Promotion Programs
- CHS 415 Internship (6 credits)
- HPE 101 or 102 (1) Activity Courses
- Natural Science Courses: (4 credits minimum required)
- BI 102 Human Biology

Students interested in public health science are encouraged to take additional natural science courses

#### Recommended Courses: (depending on interest)

- CO 360 Communication & Well-Being
- CO 325 Intercultural Communication
- CO 206 Small Group Communication
- GIS 110 Introduction to Geographic Information Systems
- PSY 203 Developmental Psychology
- PSY 308 Health Psychology
- Additional Psychology courses depending on interests
- SO 101 Introduction to Sociology
- SO 351 Medical Sociology
- Business, Management courses, HPE courses

### Minor in Community Health

#### Foundation Courses

Three foundation courses (9 credits) from the following:

- HS 230 Epidemiology
- CHS 330 Community Health Methods
- CHS 333 Planning, Implementing, & Evaluating Health Programs
- or NU 414 Community Health Nursing

#### Methods Courses

Two methods courses (6 credits) from the following:

- CHS 410 Management of Health Promotion Programs
- CO 360 Health Communications

HS/NU 307 Evidenced Based Research in Health Science

#### Electives

A minimum of two courses (6/7 credits) from the following approved electives:

ENWR 303	Grant Writing
BI 102	Human Biology
CS 189	Intro to GIS
ES 121	Environmental Science
HPE 135	Intro to Wellness
HPE 214	School Health Programs
HPE 234	Sports Nutrition and Conditioning
HS 198	Exploration of Health/ Wellness Issues
HS 335	Health Policy, Management, & Issues: National & Global Perspectives
PHIL 206	Environmental Ethics
PHIL 208	Bioethics
PSY 308	Health Psychology
SO 291	Social Gerontology
SO 345	Gender, Health, & Medicine
SO 351	Medical Sociology
TH 222	Health Care Ethics

#### Admission to Community Health and Health Science Internship Program

All Community Health and Health Science majors must apply for admission to the internship program. Applicants must have a minimum of 2.5 GPA and a grade of "C" or better in all requirements for the major. Applications must be submitted to the internship director no later than April 1 of the junior year. Failure to do so may cancel the student's opportunity to participate in an internship during the fall and/or spring semesters of the following school year. It is the student's responsibility to seek admission to the internship program. The student's eligibility will be considered by the Community Health and Health Sciences faculty upon receipt of the appropriate forms and three recommendations from Carroll College faculty and staff.

#### COMPUTER SCIENCE

R. STEPHEN HARPER, M.S.  
DAVID C. MARSHALL, M.S.  
PHILIP B. ROSE, M.SC.

#### Statement of Goals:

The computer science program is designed to:

- Provide a challenging and appropriate curriculum that will prepare students for productive careers or further education in graduate school.
- Provide an atmosphere in which learning can develop into a life long commitment to learning.
- Teach students to apply their knowledge to solving practical problems by working individually and collaboratively.
- Teach students to communicate effectively orally and in writing.

The Computer Science program provides 3 main tracks to provide a solid foundation for students whose goals span a wide range of disciplines within the rapidly changing field of computer technologies. The basic Computer Science Degree offers opportunities for graduate school at premier institutions or jobs in the field (especially data administration, software development, network administration and security jobs). The Computer Information System Degree (CIS) combines applied Computer Science with Business, offering similar job opportunities to those above and opportunities for a management career and/or MBA degree in the future. Finally the "CS Degree - with an emphasis" is for

those wishing to pursue another discipline such as math, science, social sciences or another degree who also want to particularly emphasize analysis and research skills.

Since the tracks listed do not address every student's desired educational plan, students may design a custom area of concentration that better addresses their focus. This plan must be approved by the computer science faculty and the college registrar.

Check our web site to see where our graduates went from Carroll.

#### Computer Science (CS)

The primary Computer Science degree option, it is recommended for those who intend to pursue graduate studies in Computer Science, or wish to obtain employment in computer science related fields such as software development, network and security technologies, or as a database administrator. It emphasizes both the theory and practice of Computer Science and can be customized to a student's interest.

##### I. CS Program Requirements

CS 110	Introduction to Computer Science & Java Programming
CS 120	Data Structures and Program Design
CS 202	Web Development
CS 230	Software Engineering
CS 309	Computer Architecture
CS 310	Database Design & Implementation I
CS 330	Computer Networking I
CS 410	Operating Systems
CS 430	Senior Project

And any five (5) of the following:

CS 201	Web Design
CS 311	Database Design & Implementation II
CS 331	Networking II
CS/MA 403	Cryptography
CS 421	Computer and Network Security
CS 495	Computer Science Seminar
EC 203	Project Management Economics
GIS 110	Introduction to Geographic Information Systems
GIS 220	GIS Databases

##### II. Other Program Requirements

CO 206	Small Group Communications
ENWR 305	Technical Writing
or ENWR 301	Business Writing
MA 131	Calculus of Single Variable Functions
or MA 121-122	Differential and Integral Calculus
MA 328	Discrete Mathematics I
Recommended: PSY 200 Emotional Intelligence & Personal/ Professional Success	

#### Computer Science (CS) – with an emphasis (in science, math, engineering, social sciences or other discipline)

This option is recommended primarily for students interested in combining computer science with another discipline. Increasing use of technology for research, data analysis and new developments is common in almost all disciplines. This multidisciplinary option prepares students for new technologies, analysis techniques and research for the purposes of going to graduate school and/or pursuing a career in technology driven areas of their chosen discipline. The mathematics track shown below is an example and emphasizes theory and modeling in addition to traditional software and systems classes. Please see your advisor for options for other disciplines.