

## DIVISION OF ARTS AND SCIENCES

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## DEPARTMENT OF PSYCHOLOGY AND BEHAVIORAL SCIENCES (PSY, SOC, SWK)

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### MISSION STATEMENT

The Department of Behavioral Sciences supports majors designed for the student planning for graduate work in psychology and other related fields. The curriculum is designed to develop strong skills in the theory and practice of the science of psychology, with an emphasis on dealing with the emotional, mental, social, and spiritual needs of others. Courses in social work are designed to prepare students for graduate work in the field of social services. Courses place an emphasis on the Christian model of service.

### ACADEMIC OPPORTUNITIES

Rochester College offers the Bachelor of Science degree in Psychology or a Behavioral Science degree with a concentration in Social Work. Interdisciplinary studies majors may choose a psychology concentration as part of the Bachelor of Arts or Bachelor of Science degree. Minors are available in behavioral science and psychology.

### CAREER OPPORTUNITIES

A major in Psychology or Behavioral Science may lead to entry-level jobs in crisis intervention centers, counseling clinics, community service agencies, or other social agencies. These majors are primarily designed to be used in preparation for graduate studies in psychology, psychotherapy, professional counseling, or social work. The psychology major also supports graduate work in experimental, applied, academic, theoretical, or professional psychology (clinical, counseling, or school psychology, or marriage and family therapy). Psychology graduates are also often sought by employees in sales, public relations, or other human services and resources.

### ADMISSION TO THE BEHAVIORAL SCIENCES PROGRAM

All students seeking a degree with a major in Psychology or Behavioral Science must apply for and be admitted to the Behavioral Science Program or the Psychology Program. This process is in addition to the general admittance to Rochester College.

### ADMISSION CRITERIA

The following must be documented at the time of application:

- Minimum cumulative GPA of 2.50.
- Completion of 30 hours, including the following core courses:
  - ENG 1113 English Comp A
  - ENG 1123 English Comp B
  - MAT 1103 Intermediate Algebra (or higher level MAT) with a C- or higher
  - PSY 2013 General Psychology
  - PSY 2223 Lifespan Development / PSY 2113 Psych. of Adjustment

- Must complete lower level Psychology/Social Work Core courses with a grade of C or higher.
- Complete the Autobiographical and Professional/Career Goals Statement for the Behavioral Sciences Department. This should be approximately 3-5 pages in length and address your interest in psychology or social work and present your short and long-term goals for your career.

**APPLICATION PROCESS**

1. Obtain from the Chair of the Department of Behavioral Sciences and complete an Application for Admission to the Department of Behavioral Sciences for either Psychology or Behavioral Science–Social Work.
2. Return the application to the Chair of the Department of Behavioral Sciences prior to the established deadlines for application:  
**Fall** - Monday after Thanksgiving; **Spring** - Second Monday of April
3. The Department of Behavioral Sciences will review applications of all candidates for both Psychology and Social Work. All applicants will be notified of their admission status by letter from the Department of Behavioral Sciences.

**National Honor Society in Psychology – Psi Chi**

The Behavioral Sciences Department is a sponsor for Psi Chi, The National Honor Society in Psychology, which offers opportunities for students who excel in their academic coursework in their respective Behavioral Sciences programs.

Students invited to join Psi Chi have shown a significant interest in Psychology and must meet the minimum requirements for undergraduate students:

- Must be enrolled as a student at Rochester College
- Must have established a GPA at Rochester College
- Must be enrolled in the final semester prior to graduation
- Must be enrolled as a major or minor in a psychology program or a program psychological in nature that is equivalent to a psychology major
- Must have completed at least 9 semester hours or 14 quarter hours of psychology courses
- Must have an overall GPA that is in the top 35% of the senior class (90+ credit hours earned; if the cut-off for the top 35% is below 3.00, the applicant must have an overall GPA of at least 3.00 on a 4-point scale)
- Must have a psychology GPA (in PSY course work) that is at least 3.00 on a 4-point scale

Students who meet all the criteria for induction will be sent an invitation packet during their final semester of enrollment.

**DEGREE REQUIREMENTS**

**BS with Psychology Major.** Presents a broad study of human behavior and insight into psychology as a scientific discipline and professional career. Graduate work is required to certify for practice in most agencies and for licensure as a private therapist.

REQUIREMENTS FOR THE BS IN PSYCHOLOGY		
<b>General Education Core</b>		49
SOC 2023 or SOC 2453 recommended (Human Inst/Behavior)	3	
<b>Psychology Major</b>		39
PSY 2013 General Psychology	3	
PSY 3303 Statistics for the Behavioral Sciences	3	
PSY 3323 Research Methods in the Social Sciences	3	
PSY 4893 Psychology Seminar	3	
PSY 4943 Ethics in Behavioral Science	3	
<b>Non-laboratory Core: choose 9 hours</b> PSY 2113 Psychology of Adjustment PSY 2223 Life Span Development PSY 3013 Psychology of Personality PSY 3033 Abnormal Psychology PSY 3043 Brain and Behavior PSY 3053 Health Psychology PSY 3093 History and Systems of Psychology PSY 3123 Social Psychology PSY 3143 Psychology of Religion	9	
<b>Laboratory Core: choose 7 hours</b> PSY 3503 Cognitive Psychology PSY 3514 Learning and Memory PSY 3524 Sensation and Perception	7	
<b>Advanced Core: choose 8 hours</b> PSY 3203 Child Development PSY 3213 Adolescent Development PSY 3223 Psychology of Adulthood and Aging PSY 3313 Introduction to Psychological Assessment PSY 3403 Introduction to Psychotherapy and Counseling PSY 3423 Diversity and Cross-Cultural Psychology PSY 3433 Industrial/Organizational Psychology PSY 4423 Psychology of Group Processes PSY 4534 Advanced Seminar in Applied Statistics & Research PSY 4911, 4912, or 4913 Directed Research PSY 4921, 4922, or 4923 Directed Readings Other PSY approved by Department Chair	8	
Minor (recommended)		18
Electives		22
<b>TOTAL FOR PSYCHOLOGY MAJOR</b>		<b>128</b>

**BS with Behavioral Science Major.** Features a track in social work. It includes a practicum in the student's chosen field of study. Graduate studies normally are required to certify for practice in most agencies and for licensure as a private therapist.

REQUIREMENTS FOR THE BS IN BEHAVIORAL SCIENCE		
General Education Core		49
SOC 2023 or SOC 2453 recommended (Human Inst/Behavior)	3	
Behavioral Science Major		27
PSY 2013 General Psychology	3	
PSY 2223 Life Span Development	3	
Choose one: PSY 3013 Psychology of Personality PSY 3093 History and Systems of Psychology	3	
PSY 3303 Statistics for the Behavioral Sciences	3	
PSY 3323 Research Methods in the Social Sciences	3	
PSY 3403 Introduction to Psychotherapy and Counseling	3	
PSY 3423 Diversity and Cross-Cultural Psychology	3	
SWK 4893 Field Practicum	3	
PSY 4943 Ethics in Behavioral Science	3	
Track: Social Work		18
PSY 3413 Substance Abuse and Addictive Behaviors or PSY 4423 Psychology of Group Processes SWK 2013 Introduction to Social Work SWK 3003 Human Behavior and the Social Environment SWK 3103 Social Welfare and Public Policy SWK 4403 Social Work Practice I SWK 4413 Social Work Practice II		
Minor (recommended)		18
Electives		16
<b>TOTAL FOR BEHAVIORAL SCIENCE MAJOR</b>		<b>128</b>

## MINORS

**Behavioral Science Minor** – Requires 18 hours of PSY, SOC, SWK 2000 level or above, including six upper-division hours.

**Counseling Minor** – Requires 12 hours of PSY or SOC and six hours from MIN 3613; PSY 3403, 3413, 4403, 4413, 4423, 4493; or SWK 3003.

**Psychology Minor** – Requires 18 hours of PSY, including six upper-division hours, for a psychology minor, and/or SWK 3003.

**Social Work Minor** – Requires six hours of PSY and/or SOC and 12 hours of SWK, including six upper-division hours.



## DEPARTMENT OF HUMANITIES (ART, COM, ENG, FLM, GEO, GER, HIS, HUM, INF, INS, MUS, PHI, POS, SPA, THE)

### MISSION STATEMENT

The faculty in the Humanities Department seek to provide students both breadth and depth in their understanding of the individual disciplines in the humanities and greater awareness of the inter-relationships among these disciplines. Students will explore numerous areas of study for the purpose of identifying their own academic interests and strengths. Along with acquiring a solid knowledge base in a wide range of subjects, students will grow in the intellectual skills of thinking, communicating, and problem solving. The entire range of these academic challenges will be explored in the context of constructing a Christian worldview, through which the student's individual vocation may be discovered and refined. The graduate of the Humanities programs will be, in the best sense of the phrase, an educated person.

### ACADEMIC OPPORTUNITIES

Students may pursue either the Bachelor of Arts degree in Humanities or the Bachelor of Arts or Bachelor of Science degree in Interdisciplinary Studies. Students completing the baccalaureate in Humanities complete a core of humanities courses that include an introduction to the arts and sciences; focused coursework in history, literature, diversity studies, and performing arts; foreign language literacy coursework; and a Global Educational Opportunities experience. As well as experiencing the breadth of training in the humanities core, students pursuing the baccalaureate in Humanities have the opportunity to pursue in depth a concentration of interest. Concentrations available for focused study include mass communication, general science, history, international studies, literature, literature and writing, mathematics, music, performing arts, pre-law, professional writing, religion and theatre. The combination of the humanities core and the focused concentration will enable students to be prepared and eligible for graduate studies in their area of interest.

Students pursuing the baccalaureate in Interdisciplinary Studies select two concentrations for focused study, one concentration in the humanities areas and a second concentration in a broader range of arts, sciences, and professional studies. Students also complete a core of courses in philosophy and liberal arts that allows them to explore, understand, and appreciate the interdisciplinary connections between their concentrations. Students seeking the Bachelor of Arts in Interdisciplinary Studies also complete a foreign language literacy requirement.

### CAREER OPPORTUNITIES

The humanities baccalaureate degrees not only prepare students for rich personal and academic growth, they prepare students to enter into the work world with the competencies that the marketplace is seeking: the ability to communicate clearly and effectively in writing and in speech, the ability to think creatively and critically, the ability to analyze and solve problems, and the ability to work effectively and constructively with others. Numerous career options are described in the following

sections related to the individual concentrations available to the humanities and interdisciplinary studies majors.

REQUIREMENTS FOR THE BA IN HUMANITIES	
General Education Core	49
Foreign Language	8
Humanities Major	27
HUM 2103 Introduction to the Arts and Sciences	3
3000+ Western/American Heritage	6
3000+ Non-Western Studies/Diversity	3
3000+ Western/American Heritage or Non-Western Studies/Diversity	3
3000+ Literature	6
3000+ Performing Arts	6
Humanities Concentration (see list on page 83)	24
Minor (recommended)	18
Electives	2
<b>TOTAL FOR HUMANITIES MAJOR</b>	<b>128</b>

## ENGLISH AND FOREIGN LANGUAGE (ENG, FLM, GER, SPA)

### MISSION STATEMENT

The goal of the faculty in the areas of English and Foreign Language is to enable students to develop written communication and critical thinking skills which will enhance their success in college and in their careers. Through literature courses, the instructors seek to introduce the diversity of existing worldviews, the continuity of the human experience, and an appreciation for the historical, cultural, and spiritual values present in a study of literature.

Instruction is also provided in the Spanish and German languages. This coursework is designed to introduce students to the language, culture and heritage of Spanish- and German-speaking people.

### ACADEMIC OPPORTUNITIES

The Bachelor of Arts degree in English may include tracks in professional writing or literature. The interdisciplinary studies and humanities majors also feature concentrations in literature and professional writing.

Students may choose to certify to teach English at the secondary level. English courses are also an important component of the Language Arts major, which with teacher certification allows graduates to teach at the elementary level. More information on these degree programs can be found in the Department of Teacher Education section of this catalog.

An English minor may also be paired with most majors. Foreign language coursework fulfills a general education requirement in all the Bachelor of Arts programs at Rochester College and serves as a valuable complement to other programs.

### CAREER OPPORTUNITIES

Careers available to graduates with a degree in English writing include education, journalism, technical writing, business, law, library science, and government service. Many employers value a liberal arts degree as a solid foundation for the world of work. The English major develops communication and critical thinking skills, and provides a better understanding of human nature and universal issues and truths.

In today's world, foreign language qualifications can be a valuable asset. Organizations engaged in global business seek multilingual graduates to fill positions in business, banking, and finance. Multilingual communicators may find jobs as translators or teachers.

## DEGREE REQUIREMENTS

### BA with English Major

REQUIREMENTS FOR THE BA IN ENGLISH		
General Education Core		57
Foreign Language (required)	8	
English Major		30
ENG 2000 level or above	3	
ENG 3000 level or above	3	
ENG 2413 World Literature	3	
ENG 3213 or 3223 British Writers to 1800 or British Writers 1800-Present	3	
ENG 3313 or 3323 American Writers to 1865 or American Writers 1865-Present	3	
ENG 3513 Critical Writing and Literary Analysis	3	
ENG 4413 Diversity in American Literature	3	
ENG 4523 Advanced Composition	3	
ENG 4533 Senior Writing Project	3	
Choose one: ENG 4203 Shakespeare ENG 4723 Studies in Genre: Fiction ENG 4733 Studies in Genre: Poetry ENG 4743 Studies in Genre: Drama	3	
<b>Track: Literature or Professional Writing</b>		9
<b>Literature Track</b>		
ENG 3000 level or above		9
<b>Professional Writing Track</b>		
Choose 9 hours: ENG 2113 Aspects of the English Language ENG 3523 Creative Writing ENG 3613 Introduction to Linguistics MED 1101 Print Journalism (max of 3 hrs.) MED 1201 Digital Journalism (max of 3 hrs.) MED 2513 Media Writing		9
Minor (recommended)		18
Electives		14
<b>TOTAL FOR ENGLISH MAJOR</b>		<b>128</b>

## MINORS

**English Minor** – Requires 12 hours of ENG above the 2000 level, and six hours of upper-division ENG.

**Foreign Language Minor** – A minor in a foreign language may be transferred in, but decisions on accepting transferred work to be counted toward a minor will be handled by the Humanities Department. Requires at least six hours in college-level intermediate language; and 12 hours of literature or culture (beyond intermediate level in that same language), at least nine of which need to be 3000+ level.

**Humanities Minor** – Requires six hours from ENG 2413, 3213, 3223, 3313, 3323; six hours from ART 2003, FLM 2013, HUM 2003 or 2103; and six upper-division hours of either COM or ENG.

**Professional Writing Minor** – Requires ENG 1123, 2113, 3523, 3613, 4533, and 4523.

## HISTORY AND POLITICAL SCIENCE (GEO, HIS, POS)

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### MISSION STATEMENT

The faculty in the area of history and political science strive to provide a deeper understanding of the world in which we now live by exploring the political, cultural, social, and economic past of the world's civilizations. The instructors also seek to enrich students' understanding and knowledge of humanity's various spiritual heritages. In addition, guidance is offered in historical research, writing skills, and critical thinking.

The political science faculty seek to provide credible introductory and upper-division courses, and to create an environment that inspires discussion regarding the morality of public policies and outcomes of the legal system. All the course offerings emphasize the historical and philosophical foundations of the American government. Legal courses stress the powers of common law courts to make law.

### ACADEMIC OPPORTUNITIES

Students may complete the Bachelor of Arts degree in humanities or the Bachelor of Arts or science degree in Interdisciplinary Studies with concentrations in History and/or Political Science. These degrees provide an excellent foundation for graduate training in historical studies, law, political science, journalism, library science, education, and many other fields. Teacher certification may be earned in history and social studies, allowing graduates to teach at the elementary or secondary level. Minors in history, American studies, pre-law, and social studies are also available and may be combined with other majors.

### CAREER OPPORTUNITIES

The B.A. or B.S. with a concentration in history provides an excellent foundation for careers in elementary, secondary, or post-secondary education; law; governmental service; journalism; library, museum, and archival work; historical research and writing; and many other fields. Preparation for a law career should include a minimum of a minor in pre-law or American legal studies to accompany the core curriculum of the baccalaureate.

### MINORS

**History Minor** – 18 hours of HIS, including six hours of upper-division.

**American Studies Minor** – Requires BUS 3303; two courses from HIS 3523, 3533, 3543, or 3553; and POS 2023, 2043, and 4013 or 4213.

**Pre-Law Minor** – Requires BUS 3303; MED 4113; plus 12 hours from POS.

**Social Science Minor** – Requires 18 hours, including six hours of upper division credit. Must include at least two of the following: geography, history, political science, psychology, or sociology.

## MUSIC, THEATRE, AND VISUAL ARTS (ART, MUS, THE)

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### MISSION STATEMENT

The area of Music, Theatre, and Visual Arts exists to provide an aesthetic education for all students and to enhance the aesthetic awareness of the college community, its constituency, and the community. The faculty seeks to foster an attitude of service, designing programs to prepare students to serve as professional musicians, actors, artists, and teachers with a Christian perspective, and to prepare them for additional study in conservatories and graduate schools.

### ACADEMIC OPPORTUNITIES

Students may pursue a major in music leading to a BA in Music. The degree allows for 27 hours of electives, which gives students an opportunity to pursue a concentration or minor in a supporting field. Options include Theatre, Business, Ministry, Religion, and Psychology.

Alternatively, students may pursue a music concentration for the humanities or interdisciplinary studies major, or a minor in music which may be elected to complement any Bachelor's degree.

Students may pursue a theatre concentration for the humanities or interdisciplinary studies major, or a minor in theatre which may be elected to complement any Bachelor's degree.

Art courses serve as elective credit in any degree program. Courses in art help to provide a broader base of experience for the liberal arts degree.

### CAREER OPPORTUNITIES

Academic groundwork in music prepares students for careers as performers, teachers, conductors, music ministers, support personnel for musical enterprises, music therapy specialists, or in music business. Graduate study is highly recommended for those interested in teaching or music therapy, but advancement in performance and ministry-related fields is often achieved through experience.

Academic groundwork in theatre prepares students for careers as performers, theatre managers, stage managers, technical designers, theatre critics, writers, or educators. Theatre training also provides an excellent foundation for a host of other careers including radio and television, music, advertising, marketing, law, public speaking, and ministry.

Graduates who have a background in art are better qualified to pursue occupations in education, art design, interior design, museum administration, art collection directorship, and other specializations in the fine arts.

### MINOR

**Music Minor**—Requires MUS 1203, 1211, 1213, and 11 hours of MUS, with six upper-division hours and no more than two hours of ensemble.

### REQUIREMENTS IN MUSIC

Each semester, those enrolled in applied music lessons must attend scheduled recitals. Applied music and ensemble courses may be repeated for credit. Participation in a major ensemble is also expected of all music majors every semester they are enrolled at Rochester College. Those pursuing the BA in music must choose to study a major instrument or voice for at least six semesters, and a minor instrument or voice for at least four semesters. All music majors must pass a keyboard skills exam or make a grade of B or better in MUS 3202 Keyboard Harmony before the senior year of study. MUS 4601 Senior Seminar in Music is also required as a capstone course. All music majors must complete a capstone project, which may consist of a performance recital, composition recital, or extended academic presentation.

### REQUIREMENTS IN THEATRE

See pages 92 and 95 for information regarding the performing arts and theatre concentrations for the degree in humanities or interdisciplinary studies.

**Theatre Minor**—Students may select 18 hours from the following courses to complete the minor:

#### No more than 3 total hours in any combination from the following:

THE 1011 Stagecraft, THE 1021 Theatre Workshop, THE 1031 Ensemble Acting, THE 4601 Senior Seminar in Theatre

#### Additional courses:

THE 1103 Beginning Acting, THE 2113 Technical Theatre, THE 3113 Theatre for Young Audiences, THE 3213 Dramaturgy, THE 3303 History of Western Theatre, THE 3313 Oral Interpretation of Literature, THE 3603 Dramatic Criticism, THE 4113 Directing, THE 4143 Theatre and Religion, THE 4813 Senior Writing Project, THE 4893 Internship

### REQUIREMENTS IN VISUAL ART

#### Visual Art Courses

Visual arts courses are open to all students. Enrichment options are built into each course to accommodate advanced students.

## DEGREE REQUIREMENTS

### BA with Music Major

REQUIREMENTS FOR THE BA IN MUSIC		
General Education Core		51
Foreign Language (required)	8	
Music Major		50
Choose four hours: MUS 1101 A Cappella Chorus MUS 1121 Autumn MUS 1161 Community Choral Ensemble MUS 1171 Concert Band	4	
MUS 1203 Music Fundamentals	3	
MUS 1211 Ear Training I	1	
MUS 1213 Theory I	3	
MUS 1221 Ear Training II	1	
MUS 1223 Theory II	3	
MUS 2211 Ear Training III	1	
MUS 2213 Theory III	3	
MUS 3202 Keyboard Harmony	2	
MUS 3303 History of Western Music Survey	3	
MUS 3333 World Music	3	
MUS 3343 Music in America	3	
MUS 3403 Conducting	3	
MUS 3603 Technology in Music	3	
MUS 4213 Arranging/Scoring	3	
MUS 4601 Senior Seminar in Music	1	
Major Instrument or Voice (6 semesters)	6	
Minor Instrument or Voice (4 semesters)	4	
Electives	27	
<b>TOTAL FOR MUSIC MAJOR</b>	<b>128</b>	

## PHILOSOPHY AND INTERDISCIPLINARY STUDIES (INS, PHI)

### MISSION STATEMENT

Interdisciplinary programs are the result of profound changes taking place across the spectrum of academic disciplines. Advances in science and technology, along with realities such as globalization and multiculturalism, make it clear that the boundaries between the traditional disciplines are not as distinct as once thought. It is now widely acknowledged that higher education must prepare students to think critically and creatively across traditional boundaries, to operate effectively in cross-cultural environments, and to navigate the interrelationships of different disciplines. Toward this end, the Department of Philosophy and Interdisciplinary Studies includes opportunities to study in more than one academic field within the same degree, and opportunities to develop a philosophical foundation through an "Interdisciplinary Core" designed to explore the relationships between the disciplines chosen. The department also provides opportunities for students to experience and explore diverse cultures through their academic programs.

The goal of the Department of Philosophy and Interdisciplinary Studies is to enable students to explore the value and depths of a liberal arts education in diverse and creative ways which will prepare them for a lifetime of high quality study and service in the vocation of their choosing.

### ACADEMIC OPPORTUNITIES

The Bachelor of Science and Arts in Interdisciplinary Studies allows students to combine two or more areas of study into one degree. The different areas of study are tied together by a specifically designed Interdisciplinary Core. The Interdisciplinary options also include a specifically designed degree plan for students interested in preparing for medical school, law school or pursuing options in other disciplines in the liberal arts. There is also an option for a self-designed Honors Program for qualifying students.

### CAREER OPPORTUNITIES

More than ever, professional employers and many post-baccalaureate academic programs seek graduates that have a diverse background in the liberal arts and the skills to think critically, communicate effectively, and develop broadly. For this reason, the diversity of a degree in Interdisciplinary Studies uniquely prepares a student for a number of different career and vocational pursuits. With the right combination of concentrations, the degree plan is especially designed for students interested in preparing for medical school, law school, or graduate school in philosophy, religion, theatre, or other liberal art fields.

In addition, this degree plan offers students with professional interests an opportunity to develop a broad intellectual resource base as well as the reasoning, speaking, and writing skills sought by many employers.

## DEGREE REQUIREMENTS

**BS with Interdisciplinary Studies Major with a concentration in Pre-Med.** Allows students to incorporate a concentration specifically designed for Medical School and MCAT preparation into an Interdisciplinary degree.

<b>BS IN INTERDISCIPLINARY STUDIES WITH A CONCENTRATION IN PRE-MED</b>			
General Education Core		42	
Interdisciplinary Studies Core		6	
PHI 2013 Introduction to Philosophy	3		
Any Upper-Division PHI course	3		
Pre-Med Concentration		48	
BIO 1014 Biological Science I (satisfies gen. ed. science)	4		
BIO 1024 Biological Science II	4		
BIO 3324 Microbiology	4		
BIO 3414 Genetics	4		
CHE 1514 College Chemistry I	4		
CHE 1524 College Chemistry II	4		
CHE 2514 Organic Chemistry I	4		
CHE 2524 Organic Chemistry II	4		
CHE 3514 Biochemistry I	4		
PHS 2014 General Physics I/Lab	4		
PHS 2024 General Physics II/Lab	4		
MAT 2514 Calculus and Analytic Geometry I (recommended)	4		
Second Area of Concentration—must include at least 12 upper-division hours, and be selected from the following options:			24
Business (BS only)	Mathematics (BS only)		Psychology (BS only)
Communication	Music	Religion	
History	Performing Arts	Theatre	
International Studies	Pre-Law	Literature & Writing	
Literature	Professional Writing (BS only)		
Electives (May need more upper division)		8	
<b>TOTAL FOR INTERDISCIPLINARY STUDIES MAJOR</b>		<b>128</b>	

**BS with Interdisciplinary Studies Major with a concentration in Pre-Physician Assistant.** Allows students to incorporate a concentration specifically designed for PA programs into an Interdisciplinary degree.

<b>REQUIREMENTS FOR THE BS IN INTERDISCIPLINARY STUDIES WITH A CONCENTRATION IN PRE-PHYSICIAN'S ASSISTANT</b>			
General Education Core		42	
Interdisciplinary Studies Core		6	
PHI 2013 Introduction to Philosophy	3		
PHI 3000+ Course	3		
Pre-PA Concentration		38	
BIO 1014 Biological Science I (satisfies gen. ed. science)	4		
BIO 2114 Human Anatomy and Physiology I	4		
BIO 2124 Human Anatomy and Physiology II	4		
BIO 2313 Nutrition	3		
BIO 3324 Microbiology	4		
CHE 1514 College Chemistry I	4		
CHE 1524 College Chemistry II	4		
CHE 2514 Organic Chemistry I	4		
PSY 2013 or PSY 2223	3		
MAT 1334 Pre-Calculus (Calc I suggested)	4		
*Depending on PA school a 3000 level Physiology course may also be required.			
Second Area of Concentration—must include at least 9 upper-division hours, and be selected from the following options:			24
Business (BS only)	Mathematics (BS only)		Psychology (BS only)
Communication	Music		Religion
History	Performing Arts	Theatre	
International Studies	Pre-Law	Literature & Writing	
Literature	Professional Writing (BS only)		
Electives (May need more upper division)		18	
<b>TOTAL FOR INTERDISCIPLINARY STUDIES MAJOR</b>		<b>128</b>	

### BA/BS with Interdisciplinary Studies Major

Allows students to select two areas of study from several degree concentrations with emphases in liberal arts and sciences. The Interdisciplinary core is designed to help students develop a philosophical foundation which will be useful in understanding, comparing and integrating different disciplines of study and different aspects of the human experience.

REQUIREMENTS FOR THE BA/BS IN INTERDISCIPLINARY STUDIES		
General Education Core		49
Interdisciplinary Studies Core		15
PHI 2013 Introduction to Philosophy		3
Six hours of upper-division PHI courses		6
Any upper-division course from another liberal arts area not including courses from the first and second concentration. General education hours may not be used to meet this requirement.		3
PHI 4813 Senior Project in Interdisciplinary Studies (If one of the selected concentrations has a capstone course, an additional liberal arts course may be substituted.)		3
Interdisciplinary Studies Major		
First Area of Concentration. Must include at least 8 upper-division hours, and be selected from the following options:		24
General Science (BS only)	*Literature & Writing	Professional Writing (BS only)
*History	Mathematics (BS only)	*Religion
International Studies	*Music	*Theatre
*Literature	*Pre-Law	
Second Area of Concentration. Must include at least 8 upper-division hours, and be selected from the following options. Note: Pre-med has a specialized first concentration. The second concentration should be taken from this list.		24
Business (BS only)	*Literature & Writing	*Pre-Law
General Science (BS only)	Mass Communication (BS only)	Professional Writing (BS only)
*History	Mathematics (BS only)	Psychology (BS only)
International Studies	*Music	*Religion
*Literature	*Performing Arts	*Theatre
Foreign Language (BA only)		8
Electives		8-16
<b>TOTAL FOR INTERDISCIPLINARY STUDIES MAJOR</b>		<b>128</b>

\* Can be used for Humanities Concentrations

### BA in Interdisciplinary Studies with Honors

Allows qualified students the opportunity to significantly design their own degree plan in line with specific interdisciplinary interests. The program gives qualified students a tremendous level of flexibility to pursue specific interests and to explore the creative possibilities of Interdisciplinary Studies. For a student to qualify, the following criteria must be met:

1. New students must have a minimum ACT score of 27 or a minimum SAT score of 1200, and must have graduated from high school with a GPA of 3.5 or higher and/or be in the top ten percent of their graduating class.
2. Transfer students or continuing Rochester students who wish to enroll in this degree can use their college performances as criteria. They must have completed at least 30 hours of college credit with a minimum GPA of 3.2, with at least two faculty recommendations.
3. In order to receive this Honors degree, students must graduate with a minimum GPA of 3.4. If the student's final GPA is below 3.4, then the "Honors" distinction will be dropped from the degree, and the student's program will be considered under the normal Rochester College academic guidelines, and count as a normal BA in Interdisciplinary Studies. Once the above criteria are met, the student must submit a proposal for his/ her self-designed program, meeting the requirements outlined below. Proposals must be outlined on the "Proposal/Rationale Form" (available in the Department of Interdisciplinary Studies), and must be submitted to and approved by a committee consisting of: the Head of the Department of Interdisciplinary Studies, the vice president of academic affairs and/or academic dean, and one other appropriate faculty member that the committee will select. This process must be completed before 60 hours of credit is completed.

REQUIREMENTS FOR THE BA IN INTERDISCIPLINARY STUDIES WITH HONORS		
General Education Core		49
Honors students are encouraged to choose as many upper-division classes in the general education categories as possible.		
Interdisciplinary Studies Core		15
PHI 2013 Introduction to Philosophy	3	
Any upper-division PHI courses	6	
Any upper-division course from another liberal arts area not including courses from the first and second concentration. General education hours may not be used to meet the requirement.	3	
PHI 4813 Senior Project in Interdisciplinary Studies	3	
Foreign Language		6-8
Self-Designed Program (At least 42 hours of the self-designed program must be upper-division hours.)		56
TOTAL FOR INTERDISCIPLINARY STUDIES WITH HONORS		128

### MINORS

**Philosophy Minor** – Requires 18 hours of PHI coursework, including PHI 2013.

**International Studies Minor** – Requires participation in one of Rochester College's international programs through Global Educational Opportunities (GEO); at least six hours of the same foreign language; at least six hours of liberal arts courses taken in a GEO international program; three hours (cannot overlap with one's major core or Gen Ed) from BIB 4013, 4123; BUS 3033; COM 3533; HIS 3313, 3323, 4323; three hours (cannot overlap with one's major core or Gen Ed) from ENG 2413, 4413; GEO 3113; HIS 3423; MIN 2401/2/3; MUS 3333; PHI 3043,3923.

## INTERDISCIPLINARY CONCENTRATIONS

Business Concentration		24
ACC 2113 Accounting I	3	
ACC 2123 Accounting II	3	
Choose one: BUS 2403 Macroeconomics BUS 2413 Microeconomics	3	
BUS 3003 Business Communication	3	
BUS 3303 Business Law	3	
FIN 3203 Principles of Finance	3	
MGT 2603 Principles of Management	3	
MKT 2503 Principles of Marketing	3	

I.S. students choosing the business concentration must take their capstone experience in their other concentration or in the I.S. core.

General Science Concentration		24
Select one Laboratory Science sequence (another sequence must be included in the General Education core): BIO 1014 and 1024 Biological Science I and II CHE 1514 and 1524 College Chemistry I and II PHS 2014 and 2024 General Physics I and II	8	
Choose 16 hours: BIO 1124 Zoology BIO 2114 Human Anatomy and Physiology I BIO 2124 Human Anatomy and Physiology II BIO 2224 Introductory Botany and Zoology BIO 3114 Botany BIO 3213 General Ecology BIO 3324 Microbiology BIO 3414 Genetics CHE 2514 Organic Chemistry I CHE 2524 Organic Chemistry II CHE 3514 Biochemistry I NSC 2204 Natural Science Field Study PHS 3004 Astronomy NSC 3114 Earth's Waters NSC 4612 Senior Seminar NSC 4901, 4902, or 4903 Special Topics in Science Laboratory Science sequence from above	16	

History Concentration		24
Choose three: HIS 1313 Western Civilization to 1500 HIS 1323 Western Civilization, 1500 to Present HIS 2513 United States History to 1877 HIS 2523 United States History, 1877 to Present	9	
Choose four: HIS 2113 Michigan History HIS 3313 The French Revolution and Napoleonic Era HIS 3323 Nineteenth-Century Europe HIS 3423 Globalization and the Developing World HIS 3503 Women in American History HIS 3513 History of American Foreign Relations HIS 3523 Colonial and Revolutionary America HIS 3533 The Early American Republic HIS 3543 The Rise of Industrial America HIS 3553 America in World Crises HIS 3813 Historical Research and Writing HIS 4323 Europe in the Age of World Wars HIS 4333 Europe since 1945 HIS 4513 The American Civil War Era HIS 4523 Recent America, 1952 to Present HIS 4613 Selected Topics in History	12	
HIS 4813 Senior Project in History	3	

International Studies Concentration*		24
Minimum of six hours of the same foreign language	6	
Six hours of liberal arts taken while participating in an RC GEO international program	6	
Choose six hours from: BIB 4013 Biblical Archaeology BIB 4123 Archaeology of Biblical Tamar in Israel BUS 3033 International Business COM 3533 Intercultural Communication HIS 3313 The French Revolution and Napoleonic Era HIS 3323 Nineteenth-Century Europe HIS 4323 Europe in the Age of World Wars HIS 4333 Europe since 1945	6	
Choose six hours from: ENG 2413 World Literature ENG 4413 Pluralism in American Literature GEO 3113 World Regional Geography HIS 3423 Globalization and the Developing World MIN 2401/2/3 Missions Outreach Internship MUS 3333 World Music PHI 3043 African Philosophy & the African-American Exp. PHI 3923 World Religions	6	

\*The capstone course must be a part of the second concentration or the I.S. core.

Literature Concentration		24
ENG 3513 Critical Writing and Literary Analysis	3	
Choose one: ENG 2413 World Literature Survey ENG 4413 Diversity in American Literature	3	
Choose two: ENG 3213 or 3223 British Writers to 1800 or 1800 to Present ENG 4203 Shakespeare	6	
Choose one: ENG 3313 or 3323 American Writers to 1865 OR 1865 to Present	3	
Choose two: ENG 4723 Studies in Genre: Fiction ENG 4733 Studies in Genre: Poetry ENG 4743 Studies in Genre: Drama	6	
ENG 4533 Senior Writing Project	3	

Literature and Writing Concentration		24
ENG 3513 Critical Writing and Literary Analysis	3	
Choose one: ENG 2413 World Literature Survey ENG 4413 Diversity in American Literature	3	
Choose one: ENG 3213 or 3223 British Writers to 1800 OR 1800 to Present ENG 4203 Shakespeare	3	
Choose one: ENG 3313 or 3323 American Writers to 1865 OR 1865 to Present	3	
Choose one: ENG 4723 Studies in Genre: Fiction ENG 4733 Studies in Genre: Poetry ENG 4743 Studies in Genre: Drama	3	
Choose one: ENG 2113 Aspects of the English Language ENG 3613 Introduction to Linguistics	3	
Choose one: ENG 3523 Creative Writing ENG 4523 Advanced Composition	3	
ENG 4533 Senior Writing Project	3	

Mass Communication Concentration		24
COM 3013 Communication Theory	3	
COM 3513 Small Group Communication	3	
COM 3533 Intercultural Communication	3	
MED 2013 Introduction to Mass Communication	3	
MED 2613 Introduction to Public Relations	3	
MED 3003 Media and Society	3	
Choose 6 hours of MED courses	6	

Mathematics Concentration		24
MAT 1334 Pre-Calculus	4	
MAT 2514 Calculus and Analytic Geometry I	4	
MAT 2524 Calculus and Analytic Geometry II	4	
MAT 3534 Calculus and Analytic Geometry III	4	
MAT 3614 Linear Algebra	4	
MAT 3624 Differential Equations	4	
Students with AP credit in Calculus must take six hours of the following: MAT 2233, 2413, 3303, or 4653.		

Music Concentration		24
MUS 1203 Music Foundations <u>and</u> MUS 1211/3 Ear Training & Theory I (7 hours) <b>OR</b> MUS 1211/3 <u>and</u> 1221/3 Ear Training & Theory I & II (8 hours)	7-8	
Choose 3-4 hours: MUS 1101-1171 Music Ensemble MUS 10x1-40x1 Private Instruction	3-4	
MUS 3333 World Music	3	
MUS 3343 Music in America	3	
Choose 6 hours MUS at the 3000 or 4000 level: Any musicology courses listed above MUE 3403 Conducting MUE 3423 Production of the School Musical MUE 3603 Technology in Music MUS 4213 Arranging and Scoring	6	
MUS 4601 Senior Seminar in Music	1	

Performing Arts Concentration <sup>1</sup>		24
MUS 1203 Music Foundations <u>and</u> MUS 1213 Theory I <b>OR</b> MUS 1213 Theory I <u>and</u> MUS 1223 Theory II	6	
MUE 3423 Production of the School Musical	3	
Choose one from: MUE 3403 Conducting MUE 3603 Technology in Music MUS 3333 World Music MUS 3343 Music in America	3	
THE 1103 Acting I	3	
THE 2103 Acting II	3	
Choose one from: THE 3213 Dramaturgy THE 3303 History of Western Theatre THE 3313 Oral Interpretation of Literature THE 4603 Dramatic Criticism THE 4113 Directing	3	
Choose one from: MUS 4601 Seminar in Music THE 4601 Seminar in Theatre	1	
Choose two from: MUS 10X1 Applied Private Lessons MUS 1101 A Cappella Chorus MUS 1121 Autumn MUS 1161 Community Choral Ensemble MUS 1171 Concert Band THE 1011 Stagecraft THE 1021 Theatre Workshop THE 1031 Ensemble Acting THE 1041 Theatre Practicum	2	

<sup>1</sup> If Music is the student's other concentration in the Interdisciplinary Studies program, the student must take 3 additional hours of ensemble and/or applied music and 3 additional hours in upper division music courses to complete the music concentration.

If Theatre is the student's other concentration in the Interdisciplinary Studies program, the student may elect to take ENG 4203 Shakespeare and/or an additional 3 hours in THE 1011, 1021, 1031, or 1041 as part of the 18-hour block of core courses in the theatre concentration.

Pre-Law Concentration		24
BUS 3303 Business Law	3	
HIS 3533 Early American Republic	3	
MED 4113 Media Law	3	
POS 2023 Introduction to the American Legal System	3	
POS 2043 Criminal Law and Procedure	3	
POS 4013 American Constitutional Law	3	
POS 4213 Substantive Criminal Law	3	
POS 4913 Directed Legal Research	3	

Pre-Med Concentration		48
BIO 1014/1024 Biological Science I & II	8	
BIO 3324 Microbiology	4	
BIO 3414 Genetics	4	
CHE 1514/1524 College Chemistry I & II	8	
CHE 2514/2524 Organic Chemistry I & II	8	
CHE 3514 Biochemistry I	4	
PHS 2014/2024 General Physics I & II	8	
MAT 1334 Pre-Calculus or MAT 2514 Calc I (recommended)	4	

Pre-Physician's Assistant Concentration		38
BIO 1014 Biological Science I	4	
BIO 2114/2124 Human Anatomy and Physiology I & II	8	
BIO 2313 Nutrition	3	
BIO 3324 Microbiology	4	
CHE 1514/1524 College Chemistry I & II	8	
CHE 2514 Organic Chemistry I	4	
PSY 2013 or PSY 2223 Gen. Psych or Life Span Development	3	
MAT 1334 Pre-Calculus (MAT 2514 Calc I suggested)	4	
*Depending on PA school a 3000 level Physiology course may also be required.		

Professional Writing Concentration		24
ENG 2113 Aspects of the English Language	3	
ENG 3513 Critical Writing and Literary Analysis	3	
ENG 3523 Creative Writing	3	
ENG 3613 Introduction to Linguistics	3	
ENG 4523 Advanced Composition	3	
ENG 4533 Senior Writing Project	3	
MED 2513 Media Writing	3	
Choose one from: MED 2613 Introduction to Public Relations MED 3513 Public Relations Writing and Visual Design	3	

Psychology Concentration		24
PSY 2013 General Psychology	3	
Choose one: PSY 2113 Psychology of Adjustment PSY 2223 Life Span Development	3	
Choose one: PSY 3013 Psychology of Personality PSY 3093 History and Systems of Psychology	3	
PSY 3033 Abnormal Psychology	3	
Choose four courses from the following (at least three must be PSY): Any PSY (9-12 hours). or choose one from SOC 2013, 2023, 2033, SWK 2013, 3003, 3103	12	

Religion Concentration		24
BIB 3000 or above Textual	6	
REL 2983 Biblical Interpretation	3	
Choose one: REL 3793 Theology I REL 3893 Special Topics in Historical Theology	3	
REL 4003 Theology II	3	
Choose 9 hours from any MIN or REL	9	

Theatre Concentration		24
No more than 3 hours from the following: THE 1011 Stagecraft THE 1021 Theatre Workshop THE 1031 Ensemble Acting THE 1041 Theatre Practicum	3	
Choose six from: THE 1103 Acting I THE 2103 Acting II THE 2113 Technical Theatre THE 3113 Theatre for Young Audiences THE 3213 Dramaturgy THE 3303 History of Western Theatre THE 3313 Oral Interpretation of Literature THE 4603 Dramatic Criticism THE 4113 Directing THE 4143 Theatre and Religion THE 4893 Internship	18	
THE 4813 Senior Project	3	

## DEPARTMENT OF PHYSICAL EDUCATION (PED)

### MISSION STATEMENT

The Department of Physical Education trains students to excel in team and individual athletics, develop lifetime fitness and mental wellness habits, and practice lifesaving techniques such as CPR and first aid.

### ACADEMIC OPPORTUNITIES

Physical education courses and varsity sports meet the general education requirement. They may be taken more than once for additional credit in subsequent semesters. A maximum of one credit per varsity sport is permitted each academic year.

### CAREER OPPORTUNITIES

Graduates with backgrounds in Physical Education may become elementary or secondary school teachers and coaches, physical therapists, athletic trainers, aerobics instructors, personal trainers, sports managers, and recreation directors.



## DEPARTMENT OF RELIGION AND BIBLE (BIB, GRE, HEB, MIN, REL)

### MISSION STATEMENT

The Department of Religion and Bible provides formal instruction in biblical and religious studies. It seeks to encourage all students to pursue Christian faith, values, and service, and offers preparation for graduate studies or a vocation in Christian ministry.

### ACADEMIC OPPORTUNITIES

The Bachelor of Science degree supports formal preparation for Christian ministry or biblical studies. Rochester College also offers a Masters of Religious Education degree, and this program is described in a separate graduate catalog. Undergraduate degrees are available in biblical studies, Christian ministry, and youth and family ministry. A concentration in religion is available under the Interdisciplinary Studies program for those who are interested in vocational ministry or a degree plan that does not include biblical languages. Minors are offered in biblical studies, biblical languages, religion, or youth and family ministry.

### CAREER OPPORTUNITIES

Graduates are well-prepared for several roles in Christian ministry. Common ministerial opportunities include preaching, local ministry, youth ministry, missions, and teaching. Graduates also find jobs at Christian youth camps and senior care facilities. The degree provides a foundation for graduate studies in religion.

### DEGREE REQUIREMENTS

#### BS with Biblical Studies Major

Foundational courses feature textual Bible, historical and doctrinal religion, Hebrew, and Greek. The biblical studies major provides maximum flexibility in course selection for students with a variety of interests including those who plan to seek biblical studies at the graduate level or teach religion at a Christian institution. This major also benefits students who want to increase their Bible knowledge while engaged in liberal arts studies at the Bachelor's degree level.

REQUIREMENTS FOR THE BS IN BIBLICAL STUDIES	
General Education Core <sup>1</sup>	49
Biblical Studies Major	45
BIB 3000 or 4000 level textual with both Old and New Testament courses included (3 hours must be 4000 level)	12
Choose one: BIB 4193 History and Theology of the Old Testament BIB 4293 History and Theology of the New Testament	3
GRE 1214 Elementary Greek I	4
GRE 1224 Elementary Greek II	4
MIN 3323 Introduction to Preaching	3
MIN 4533 Seminar in Ministry	3
REL 2983 Biblical Interpretation	3
REL 3793 History and Theology of the Christian Tradition I	3
REL 3893 Special Topics in Historical Theology	3
REL 4003 History and Theology of the Christian Tradition II	3
REL 4811 Senior Seminar in Religion	1
BIB 4393 Contemporary Issues in Hermeneutics (capstone)	3
Language Track: choose one	7-8
Greek Language Track	
GRE 3314 Intermediate Greek Grammar	4
Choose one for 3 hours: GRE 3413 Advanced Greek Readings I GRE 3423 Advanced Greek Readings II	3
Hebrew Language Track	
HEB 1214 Elementary Hebrew I	4
HEB 1224 Elementary Hebrew II	4
Minor (recommended)	18
Electives	8-9
<b>TOTAL FOR BIBLICAL STUDIES MAJOR</b>	<b>128</b>

<sup>1</sup> In the Christian Values unit of general education, Religion/Bible majors must take REL 1003, REL 1013, MIN 2513, and PHI 2013 or 2933. PSY 2013 is required in the Human Institutions and Behavior section.

**BS with Christian Ministry Major**

Students may earn the Bachelor of Science degree with a major in Christian ministry. This degree program includes a strong foundation in textual, historical, and doctrinal courses, along with both practical and theoretical courses pertaining to local ministry and the art of preaching.

REQUIREMENTS FOR THE BS IN CHRISTIAN MINISTRY	
General Education Core <sup>1</sup>	49
Christian Ministry Major	51
BIB 3000 or 4000 level textual with both Old and New Testament courses included (3 hours must be 4000 level)	9
GRE 1214 Elementary Greek I	4
GRE 1224 Elementary Greek II	4
MIN 3323 Introduction to Preaching	3
MIN 3523 Practical Issues in Ministry	3
MIN 3613 Pastoral Care	3
MIN 3623 The Church and Society	3
MIN 4533 Seminar in Ministry	3
MIN 4873 Internship	3
REL 2983 Biblical Interpretation	3
REL 3793 History and Theology of the Christian Tradition I	3
REL 3893 Special Topics in Historical Theology	3
REL 4003 History and Theology of the Christian Tradition II	3
REL 4811 Senior Seminar in Religion	1
BIB 4383 Contemporary Issues in Hermeneutics (Capstone)	3
Minor (recommended)	18
Electives	10
<b>TOTAL FOR CHRISTIAN MINISTRY MAJOR</b>	<b>128</b>

<sup>1</sup> In the Christian Values unit of general education, Religion/Bible majors must take REL 1003, REL 1013, MIN 2513, and PHI 2013 or 2933. PSY 2013 is required in the Human Institutions and Behavior section.

**BS with Youth and Family Ministry Major**

Students may earn the Bachelor of Science degree with a major in Youth and Family Ministry. This degree program is designed to prepare students to minister to youth in their families, churches, schools, and communities.

REQUIREMENTS FOR THE BS IN YOUTH AND FAMILY MINISTRY	
General Education Core <sup>1</sup>	49
Youth and Family Ministry Major	54
BIB 3000 or 4000 level textual with both Old and New Testament courses included (3 hours must be 4000 level)	9
GRE 1214 Elementary Greek I	4
GRE 1224 Elementary Greek II	4
MIN 3323 Introduction to Preaching	3
MIN 3333 Introduction to Youth Ministry	3
MIN 3353 Religion, Media, and Youth Culture	3
MIN 3363 Family Life Ministry	3
MIN 4533 Seminar in Ministry	3
MIN 4873 Internship	3
PSY 3213 Adolescent Development	3
REL 2983 Biblical Interpretation	3
REL 3793 History and Theology of the Christian Tradition I	3
REL 3893 Special Topics in Historical Theology	3
REL 4003 History and Theology of the Christian Tradition II	3
REL 4811 Senior Seminar in Religion	1
BIB 4393 Contemporary Issues in Hermeneutics (Capstone)	3
Minor (recommended)	18
Electives	7
<b>TOTAL FOR YOUTH AND FAMILY MINISTRY MAJOR</b>	<b>128</b>

<sup>1</sup> In the Christian Values unit of general education, Religion/Bible majors must take REL 1003, REL 1013, MIN 2513, and PHI 2013 or 2933. PSY 2013 is required in the Human Institutions and Behavior section.

## MINORS

**Biblical Language Minor** – Requires GRE 1214, 1224, HEB 1214, 1224, and one additional GRE or HEB. These courses, if used toward a Biblical Language Minor, cannot be concurrently applied toward the Biblical Studies, Christian Ministry, or Youth and Family Ministry degree cores. Students in those programs must use upper-division BIB, MIN, PHI, or REL coursework to substitute for redundant requirements.

**Biblical Studies Minor** – Requires REL 2983 and 15 hours of BIB 3000 (or above) level textual courses.

**Greek Minor** – Requires GRE 1214, 1224, 3314, 3413, and 3423. These courses, if used toward a Greek Minor, cannot be concurrently applied toward the Biblical Studies, Christian Ministry, or Youth and Family Ministry degree cores. Students in those programs must use upper-division BIB, MIN, PHI, or REL coursework to substitute for duplicate requirements.

**Religion Minor** – Requires REL 2983 and 15 hours of upper-division religion courses (BIB, GRE, HEB, MIN, PHI, REL).

**Youth and Family Ministry Minor** – Requires MIN 3333, 3353, 3613; PSY 2013, 3213.



## DEPARTMENT OF SCIENCE AND MATHEMATICS (BIO, CHE, MAT, NSC, PHS)

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### MISSION STATEMENT

The Department of Science and Mathematics exists to provide Biology, Chemistry, Natural Science, Physics, and Mathematics courses that introduce students to the tremendous complexity and diversity found in all living things, and to the elements of the physical world in which they live. The Department strives to enhance each student's appreciation for God's wisdom in His works of creation and in the function of the biological and physical world. It also encourages an awareness of humanity's relationship with all creation, and the need for the responsible stewardship of natural resources. In Mathematics courses, the Department seeks to increase the quantitative skills of students, to train them to think logically in preparation for other courses and situations in which mathematics occurs, and to increase their confidence in their ability to do mathematics.

### ACADEMIC OPPORTUNITIES

The Department of Science offers majors in Integrated Science, Health Sciences (with tracks in pre-pharmacy and pre-physical Therapy), Biology, and Biology Education. Also, Biology, Chemistry, Natural Science, and Physics courses meet general education core requirements for all degrees at Rochester College. General Science, Pre-Med, and Pre-Physician Assistant concentrations are available to students majoring in Interdisciplinary Studies. A General Science, Biology, Biology Education, or Chemistry minor may be combined with any academic major.

The following options are available for students who are interested in studying mathematics at Rochester College. Students may certify to teach mathematics at the elementary or secondary level. Students may also pursue a Bachelor of Science degree in interdisciplinary studies and select mathematics as a concentration. This option allows students to study mathematics and a second academic field such as behavioral science, business, communication, history, or music. Students may pursue a Bachelor's degree through another department and select mathematics as a minor.

### CAREER OPPORTUNITIES

Graduates with a background in science may play essential roles in several science-related fields such as education, medicine, pharmacy, veterinary science, engineering, environmental biology, environmental science, and other scientific fields.

Many careers require analytical and critical thinking skills taught in mathematics. The importance of mathematics in many academic and professional fields means that many professionals must utilize mathematical skills on a regular basis. With a background in mathematics, students may pursue a wide range of career options in such fields as business, government service, industry, and teaching. Students may also choose to continue their studies with graduate work in such fields as computer science, economics, mathematics, or statistics.

## DEGREE REQUIREMENTS

### BS with Biology Major

Students with a variety of science related interests and goals may choose the biology major. The degree forms a solid background for science related graduate work such as further studies to prepare for professions in the medical, research or environmental fields.

REQUIREMENTS FOR THE BS IN BIOLOGY		
General Education Core <sup>1</sup>		54
Biology Major		37-38
BIO 1014 Biological Science I	4	
BIO 1024 Biological Science II	4	
BIO 2114 Anatomy and Physiology I	4	
BIO 2124 Anatomy and Physiology II	4	
BIO 3114 Botany or BIO 3213 General Ecology	3-4	
BIO 3324 Microbiology	4	
BIO 3414 Genetics	4	
CHE 3514 Biochemistry I	4	
NSC 3114 Earth's Waters	4	
NSC 4612 Senior Seminar	2	
Minor	18	
Additional Required Support Courses <sup>1</sup>	8	
Electives	10-11	
<b>TOTAL FOR BIOLOGY MAJOR</b>	<b>128</b>	

<sup>1</sup> MAT 1334 Pre-Calculus, CHE 1514 and 1524 College Chemistry I and II, CHE 2514 Organic Chemistry I, and PHS 2024 General Physics II are required support courses for the Biology major. Nine hours of the support courses can satisfy general education requirements.

### MINORS

**General Science Minor**—Requires eight hours of BIO lab courses, eight hours of CHE, NSC, or PHS lab courses; and two hours of any BIO, CHE, NSC, or PHS.

**Biology Minor**—BIO 1014, 1024, 3324, and 3414. Choice of: BIO 2013, 2114 or 3213.

**Chemistry Minor**—CHE 1514, 1524, 2514, 2524, and 3514.

**Mathematics Minor**—Requires 12 hours of MAT above 1103, including MAT 2514 and 2524, and six hours of upper-division MAT.

### BS with Health Sciences Major

Designed for students interested in pursuing studies at either a Pharmacy or Physical Therapy School, this degree will provide the essential background and requirements to enter these health related programs. Students should consult the requirements of the specific programs to which they are interested in applying.

REQUIREMENTS FOR THE BS IN HEALTH SCIENCES			
General Education Core		54	
CHE 1314 / 1324 Pre-PT Track (gen. ed. science) <b>OR</b>	8		
CHE 1514 / 1524 Pre-Pharmacy Track (gen. ed. science)	8		
Health Sciences Major (Students are advised to check requirements of the school to which they intend to transfer.)		24	
BIO 1014 Biological Science I with Lab	4		
BIO 2114 and 2124 Human Anatomy and Physiology I & II	8		
BIO 3324 Microbiology	4		
BIO 3414 Genetics	4		
PHS 2014 Physics I	4		
<b>HEALTH SCIENCES TRACK: Choose one</b>			
<b>Pre-Pharmacy Track</b>			26
BIO 1024 Biological Science II with Lab	4		
CHE 2514 and 2524 Organic Chemistry I & II	8		
CHE 3514 Biochemistry I	4		
MAT 2413 Elementary Statistics	3		
MAT 2514 Calculus and Analytic Geometry I	4		
BUS 2403 or 2413 Macro- or Microeconomics	3		
<b>OR Pre-Physical Therapy Track</b>		13-14	
PHS 2024 Physics II	4		
PSY 2223 Life Span Development	3		
PSY 3303 Psychological Stats (WSU) or MAT 2413 Stats (OU)	3		
Exercise Physiology- upper division (Transfer In)	4		
Minor	18		
Electives (depending on track chosen)	6-19		
<b>TOTAL FOR HEALTH SCIENCES MAJOR</b>	<b>128</b>		

## **SCHOOL OF NURSING (NUR)**

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### **MISSION STATEMENT**

The mission of the Rochester College School of Nursing is to prepare professional nurses in an academically challenging Christian community to provide socially conscious and professionally skilled practice in a diverse and rapidly changing health care environment. The curriculum is designed to enhance students' understanding of health and illness in the context of a Christian environment using the relationship-based care model.

### **ACADEMIC OPPORTUNITIES**

The RN to BSN (Bachelor of Science in Nursing) completion program presents an opportunity for students to gain access into higher education. Faculty will facilitate the students' growth, both individually and collectively, by providing opportunities for students to make connections with mentors within areas that hold a particular interest to the student. The RN's previous academic and clinical preparation is valued and built upon with a concentration in applicable nursing advancement.

### **CAREER OPPORTUNITIES**

The nursing program provides BSN completion students the opportunity to explore career options in various areas both within the hospital setting and in the surrounding community. Students will advance their understanding of the nursing profession and expand their leadership potential in the areas of management and health education within the community. More than ever, employers recognize the value of baccalaureate-prepared RNs. This degree commonly offers graduates career opportunities beyond the bedside.

### **DEGREE REQUIREMENTS**

Students applying for the RN to BSN degree completion program must have graduated from an ADN (Associate Degree in Nursing) program or diploma school and have a current license as a Registered Nurse in Michigan. The course offerings for degree are presented primarily in an online format. Length of time to completion of the program will be evaluated during a degree planning session, based on the student's previous academic background and availability to take classes. If the courses are taken in the prescribed manner, the BSN degree can be completed in as little as 18 months.

### **ADMISSION TO THE PROGRAM**

To gain admission to the RN to BSN program, students must supply the following:

- Completed Rochester College Nursing School Application
- Official transcripts of all college work
- A copy of an unencumbered RN license valid in the State of Michigan
- A one-page letter describing the student's career plans and philosophy of nursing care. Include in this a statement of how your spiritual values impact your clinical practice.
- One completed personal reference form (along with waiver). All of these items should be sent to:

Admissions  
Rochester College  
800 West Avon Road  
Rochester Hills, MI 48307



## DEGREE REQUIREMENTS

### Bachelor of Science in Nursing – RN to BSN

REQUIREMENTS FOR THE BS IN NURSING (RN to BSN)			
General Education Core <sup>1</sup>		25	
Co-requisite Courses <sup>2</sup>		24	
RN Degree (ADN)		30	
Nursing Major		39	
NUR 3104 Transition to Professional Nursing	4		
NUR 3204 Advanced Health Assessment in the Community	4		
NUR 3304 Pathophysiology Across Cultures	4		
NUR 3404 Integrated Pharmacology Trends	4		
NUR 4104 Nursing Research & Informatics	4		
NUR 4204 Holistic Health Promo Across Life	4		
NUR 4304 Nursing Management & Leadership	4		
NUR 4904 Nursing Capstone/Practicum	4		
PHI 4944 Ethics for Health Care	4		
REL 1003 Introduction to the Christian Faith	3		
Electives			10
<b>TOTAL FOR RN to BSN MAJOR</b>			<b>128</b>

<sup>1</sup> PSY 2013 General Psychology is required as part of the gen ed core.

<sup>2</sup> Co-requisite courses include CHE 1314 and 1324 Intro to Chemistry I and II w/labs; BIO 1014 Biological Science w/lab; BIO 2011/2013 Intro to Anatomy/Physiology w/lab; BIO 2313 Nutrition; BIO 3324 Microbiology w/lab; INF 1011 Information Literacy; PSY 1001 APA Writing; and PSY 2223 Life Span Development. Four hours of the science support courses can satisfy general education lab science requirements.

REQUIREMENTS FOR PRE-LICENSURE BSN		
General Education Core <sup>1</sup>		42
Required Support Courses <sup>2</sup>		20
Nursing Major		64
NUR 2101 Introduction to Professional Nursing	1	
NUR 2204 Integrated Pathophysiology	4	
NUR 2304 Health Assessment	4	
NUR 2402 Community Wellness I with clinical	2	
NUR 2503 Nursing Foundations	3	
NUR 2604 Innovative Pharmacology	4	
NUR 2803 Nutritional Health Promotion	3	
NUR 3214 Adult Nursing I with clinical	4	
NUR 3314 Mental-Health Nursing with clinical	4	
NUR 3411 Applied Nursing Research I	1	
NUR 3413 Applied Nursing Research II	3	
NUR 3514 Maternal-Infant Nursing with clinical	4	
NUR 3614 Pediatric Nursing with clinical	4	
NUR 4114 Adult Nursing II with clinical	4	
NUR 4214 Population Based Nursing with clinical	4	
NUR 4312 Nursing Empowerment	2	
NUR 4414 Pre-Licensure Capstone Practicum	4	
NUR 4514 Holistic Nursing Leadership	4	
NUR 4611 Comprehensive Nursing	1	
<b>TOTAL FOR BACHELOR OF SCIENCE IN NURSING</b>		<b>126</b>

<sup>1</sup> HIS 1313, 1323, INS 3113 or PHI 2013 satisfies Western Heritage; American Experience must be a Political Science course; Diversity must be a Sociology course; PSY 2013 and PHI 2943 are required courses.

<sup>2</sup> CHE 1314/1324, BIO 1014/2011/2013/3324, PSY 1001/2223. 4 hours of the required support courses can satisfy general education lab science requirements.