

# Liberal Arts - General Information

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## Historical Note

Since its founding, Manhattan College has sought to broaden the intellectual horizons of its students while preparing them for the various professions. The School of Liberal Arts supports Manhattan College's tradition of liberal inquiry, reflection on faith in relation to reason, emphasis on ethical conduct and commitment to social justice by offering diverse foundation courses for all students, no matter their school or major. In addition, the School of Liberal Arts furthers Manhattan's emphasis on high academic standards by offering challenging majors in the humanities and social sciences and innovative interdisciplinary majors. These include courses taught by outstanding teacher-scholars committed to the advancement of knowledge in their classrooms and in their disciplines. Courses and majors emphasize the skills of analysis and criticism that are central to an understanding of the contemporary world, providing students with the informational and ethical base for that understanding and the written and oral skills necessary for its critique and communication. The faculty of Liberal Arts seeks to provide the broad, flexible, and thoughtful education essential for students to develop professionally, live successful and rewarding lives, and contribute effectively to a rapidly changing society.

## The Curriculum

The faculty of the School of Liberal Arts offers a program of education that provides students with the opportunity for a life of continuing growth and development in the twenty-first century. The core of the program is entitled The Roots of Learning. Its development was supported by a generous grant from the National Endowment for the Humanities.

Foundation courses include composition, modern language, religious studies, science, and mathematics. Students then proceed to studies of the modern age through courses in the humanities and social sciences. The program is structured to provide a common learning experience for all students in Liberal Arts.

## The Core: The Roots of Learning

The Roots of Learning represents a commitment to an educational program that judiciously combines content and process. The program seeks to:

- Equip students with the intellectual skills essential to a productive professional life of learning and leadership
- Immerse students in the traditions of humanism, the sciences, and the social sciences
- Provide the global perspective essential to living and growing in our ever smaller, but increasingly complex, world
- Develop critical reasoning and analytical skills through an intensive study of fundamental texts

## School of Liberal Arts Core Curriculum Requirements

All first-year students in the School of Liberal Arts take one First Year Seminar in Fall and one in Spring semester. One seminar should be in the humanities and one in the social sciences. These seminars, which are designated by the number 151, are small discussion-based and writing-intensive courses that meet the School of Liberal Arts Core Curriculum Requirements.

Students in the Division of Education should review curriculum requirements on the Division of Education (<http://catalog.manhattan.edu/undergraduate/arts/education/>) page.

### General Requirements

College Writing (a first-year requirement)	3
Religious Studies	9
RELS 110           The Nature and Experience of Religion or RELS 152       Nature & Experience of Religion-FYS	
A course in Catholic Studies	
A course in Global Studies or Contemporary Issues	
Modern Language (a full year requirement of the same language; placement by Modern Languages Department)	6
Mathematics (course requirement dependent upon program specifications)	3
MATH 151           Topics in Modern Mathematics	
MATH 230           Elementary Statistics	
Science (Select three of the following courses): *	9
SCI 230            Great Ideas in Physics	
SCI 231            Chemistry in the Modern World	
SCI 201            Introduction Astronomy	
SCI 202            Introduction Geology	
SCI 203            Topics in Science I	
SCI 204            Topics in Science II	
SCI 221            Introduction Meteorology	
BIOL 131           Principles of Biology I	
Global/Non-Western	
Two courses from the total required for graduation must focus on global and/or non-western topics	
Computer Proficiency	
Computer proficiency in the area of major concentration demonstrated by passing a test on entrance or taking a computer course	
<b>Total Credits</b>	<b>30</b>

\* Part of the science requirement may also be satisfied by a full year of chemistry, biology, or physics.

## Roots of Learning Core Requirements

LLRN 102	Classical Origins: West Culture	3
or LLRN 151	Classical Origins of Western Culture-FYS	
The Roots of the Social Sciences (students choose three courses from the following four disciplines):		9
ECON 150	Roots: Economics *	
PSYC 150	Roots: Psychology	
or PSYC 153	Roots: Psychology - FYS	
POSC 150	Roots: Government	
SOC 150	Roots: Sociology	
or SOC 153	Roots: Sociology - FYS	
The Roots of the Modern Age (students take English, History, Philosophy, and either Art or Music):		12
ENGL 150	Roots: Literature	
or ENGL 151	Roots: Literature-1st Year Seminar	
HIST 150	Roots: History	
or HIST 152	Roots: History - FYS	
PHIL 150	Roots: Philosophy	
or PHIL 152	Roots of Modern Age: Philosophy - FYS	
ART 150	Roots: Art	
or ART 151	Roots:Art -FYS	
or MUSC 150	Roots: Music	
or MUSC 151	Roots:Music-1st Year Seminar	

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**Total Credits** **24**

\* Courses open only to students in the School of Liberal Arts and the School of Science.

## The Major

A major is an extensive and detailed study of a particular discipline or a coherent combination of disciplines. Each student in Liberal Arts selects a major field of study. It is chosen on the basis of the individual's interests, educational and career goals, and abilities. Double majors are possible with careful planning, but students are encouraged to take as many elective courses as possible. A maximum of six (6) credits may be shared between majors in support of respective double majors.

In Liberal Arts, the areas of specialization from which a student selects a major include the following fields:

- Art history
- Communication
- Criminology
- Economics

- English
- French
- Game Design and Production
- History
- Philosophy
- Political Science
- Psychology
- Religious Studies
- Sociology
- Sound Studies
- Spanish

The Division of Education in the School of Liberal Arts also offers undergraduate degrees in:

- Adolescent Education
- Childhood and Special Education (Dual Major)
- Childhood Education

Graduate programs in:

- Advanced Leadership Studies (Advanced Certificate)
- Advanced Leadership Studies, M.S. Ed.
- School Building Leadership (Advanced Certificate)
- School Building Leadership, M.S. Ed.

In addition, five interdisciplinary majors are available to students in Liberal Arts:

- Environmental Studies
- International Studies
- Labor Studies
- Peace and Justice Studies
- Urban Studies

These programs are designed to enhance a student's knowledge of a particular area of study not easily confined to a traditional academic department and to help the student develop an ability to address multiple perspectives.

Requirements for the major fields are listed under the department or program.

Students may not take more than 42 credits in their major without the permission of the Department Chair and the Dean. There is a residency requirement in the major for all transfer students: no more than 12 credits (9 credits in Communication) may transfer toward the major. Students are encouraged to develop a minor or a cluster.

## Minor Fields of Study

Minors may be earned in all departments and major programs offered by the School of Liberal Arts, in specific languages such as Arabic, Chinese, Italian, and Japanese, as well as specific disciplines such as Music and Theater. Interdisciplinary minors are available in areas including Catholic Studies, Critical Race & Ethnicity Studies, Digital Arts & Humanities, Game Design & Production, Ethics, Film Studies, Medieval Studies, and Women and Gender Studies. Minimum grade requirements for the minor are the same as those for the major. A minor consists of 15 credits. A maximum of three (3) credits may be shared between a single major and a single minor in support of a respective major.

Students in Liberal Arts may pursue minors in other schools at Manhattan: in Computer Information Systems, Finance, General Business, Management, and Marketing in the School of Business; a general Education minor without state certification in the School of Education & Health; or a minor in Science or in a specific Science or in Mathematics or Computer Science. Students must earn a grade of C or better in all courses taken for the minor in these schools. Students generally take no more than fifteen credits in Business or Education.

## Electives

Most programs in Liberal Arts include the opportunity for a student to select particular electives to meet individual needs. Often elective courses are selected on the basis of their relationship to the student's major field of study; they also enable students to develop a minor field of study, to structure a second major, or to explore new areas of knowledge. Electives should not be selected without serious consideration. Students are advised to consult regularly with their advisors concerning their electives.

Students generally take no more than fifteen credits in Business, Education, Science, or Engineering. Any courses taken in these programs must be approved by the appropriate chair. Students interested in exercising any of these options must consult with the Academic Advisor in the School of Liberal Arts.

Please note: Credits earned in Aerospace Studies may not be used for any degree program in Liberal Arts. Students may not take more than three credits total in health and physical education courses.

## Student Course Load

Students may not take more than eighteen credits in the Fall or the Spring semester without the written approval of the Dean of Liberal Arts. Students may not take more than three credits in the January or May intercession or the summer session without the written approval of the Dean of Liberal Arts.

## Bachelor of Science in General Studies

The curriculum for the degree program in General Studies is an alternative to the usual undergraduate curriculum. It features a modified core curriculum, a primary area of emphasis rather than a major, and two secondary concentrations (or one secondary concentration and one traditional minor). Consequently, there is less specialization, but an opportunity for broader and more structured general education. Each program provides

core requirements in English, fine arts, history, mathematics and science, philosophy, psychology, religious studies, and sociology as a foundation for self-enrichment, appreciation, and understanding. The general education core requires forty-eight credits, including nine credits in religious studies.

### 48 Credits (16 Classes) General Education Core

RELS 110	The Nature and Experience of Religion	3
RELS 200 Level Course		3
RELS 300 Level Course		3
ENGL 110	First Year Composition	3
or ENGL 210	Advanced First Year Composition	
Choose one of the following:		
ENGL Literature		
MLL 300 level Course		
LLRN 151	Classical Origins of Western Culture-FYS	3
History Elective		3
Philosophy Elective		3
Art Elective (ART, MUSC, THEA)		3
One course from four of the following subjects:		
COMM Elective		3
ECON Elective		3
POSC Elective		3
PSYC Elective		3
SOC Elective		
MATH Elective		3
Additional nine credits of School of Science Classes (no more than three credits)		
CMPT Course		
MATH Course		
* Distribution of six credits must be Global/Non-Western Courses		6
**Distribution of 3 credits must be from Digital Arts and Humanities courses		3

### 30 Credits (10 Classes) Primary Concentration

Primary Concentration (see Dept. of Emphasis below)	24
400 level Capstone experience (research, senior/majors' seminar, internship, etc) <sup>1</sup>	3
Methods course (from options given by Chair of relevant Dept.)	3

#### Primary Concentration Dept. of Emphasis:

(1) At least 18 credits must be in a single School of Liberal Arts dept. or interdisciplinary program, which is selected as by the student as their respective Dept. of Emphasis.

(2) At least four courses must be at 300-level or above

(3) Faculty Advisor will come from the Dept. of Emphasis and coordinate advising with the SoLA Asst. Dean<sup>2</sup>

Two Secondary Concentrations (5 Classes each)	30
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### One Secondary Concentration and a traditional Minor

Electives	12
<b>Total Credits</b>	<b>120</b>

No language courses at the 100-level count in the greater concentration and no more than two 200-level courses or six credits of AP may count toward the greater concentration. Students must achieve a grade of C or better in all courses in the primary concentration.

No language courses at the 100-level count in the lesser concentration and no more than two 200-level courses or six credits of AP may count toward the secondary concentrations. Students must achieve a grade of C or better in all courses in the secondary concentrations.

No more than 18 credits in any combination may be taken in courses offered by the Schools of Business, Education, or Engineering, including courses taken in a concentration. No more than 3 credits may be taken in Physical Education and/or Health Education combined. Credits earned in Aerospace Studies do not count toward graduation in this program.

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[1] All capstone experiences must complete an analytical essay that reflects skills gained in the primary concentration. More specific information can be found in the *General Studies Advising Guidelines*.

[2] Specific information on assessment, advising, and mentor assignment can be found in the *General Studies Advising Guidelines*.

## Academic Advising

All first- and second-year students who have not yet declared a major are advised by the Academic Advisors in the School of Liberal Arts. Division of Education students will also be assigned a faculty advisor upon enrollment in the Division. Students who have chosen their major are advised by the Chair of their department or their assigned delegate. Transfer students plan their first semester with the Academic Advisor.

## Study Abroad Opportunities

The School of Liberal Arts encourages students to broaden their educational horizons by participating in foreign study programs. In order to participate in such a program, a student must have a minimum cumulative grade point index of 2.75. Foreign study opportunities are available in many countries.

Further information about the wide range of study abroad opportunities at the College is available through the Office of Study Abroad.

## Credit for Off-Campus Courses

Once matriculated into a degree-granting program (major) at Manhattan College (College), a student may not take off-campus courses offered by another accredited institution for transfer to the College without prior written approval from the student's academic advisor and the student's dean. A maximum of **12** credits may be taken in off-campus courses after matriculation. Each school may set limitations on what types of

courses may or may not be approved for its students that are consistent with the College's overall requirements.

Credit for courses taken at other institutions by matriculated students of Manhattan College will be recognized under the following conditions:

1. Required courses in a major or in a minor may not be taken off-campus except in extenuating circumstances and with compelling reasons, and with the approval of the chair of the major or minor program.
2. Only courses from accredited two- and four-year colleges and from accredited universities will be considered.
3. Written approval to take courses with departmental or school course numbers is obtained in advance. First, the chair of the department offering the course at Manhattan must approve the off-campus course based on the equivalency or substitutability of the course. Second, the Dean of the student's school must approve the off-campus course based on the chair's assessment and other circumstances. On-line courses are acceptable if approved. Approval to take courses without departmental or school course numbers may be approved by the dean.
4. The required form and transcript are filed with the Registrar and the required fee is paid to the Bursar.
5. The grade received at the other institution must be equivalent to or higher than the Manhattan College grade of C.
6. Grades earned at other institutions will not be transferred to the student's record at Manhattan College.
7. Study-abroad courses do not count toward the 12-credit maximum.
8. The required nine (9) credits of Religious Studies courses – RELS 110, a 200-level course in Catholic Studies, and a 300-level course from Global Studies and Contemporary Issues – are at the core of the Lasallian heritage of the College. Generally, these courses will be taken on-campus. These courses are offered in both in-class and online formats by the College. A required RELS course may be taken off-campus if the RELS program does not offer enough openings in the course. Any exceptions will only be permitted for **one** of the three-credit RELS courses and as part of the overall 12 credits allowed. Any RELS course taken off-campus to meet the nine credit hour requirement will require review for equivalency or substitutability by the dean of the School of Liberal Arts before approval by the student's dean.
1. Each School may adopt additional guidelines to meet specific accreditation or curricular requirements for its programs.

This policy will come into force starting the 2017-2018 academic year for all students enrolled at that time and subsequently.

## Honor Societies and Research Opportunities

The faculty of Liberal Arts, in order to encourage and reward the development of serious scholarship among its students, have established on campus a number of national honor societies. Chief among these are Phi Beta Kappa and Sigma Xi.

Phi Beta Kappa, founded in 1776, is dedicated to the ideal of excellence in scholarship in the liberal arts and sciences and is widely regarded as a mark of the highest distinction. The Manhattan College Chapter, the Upsilon of New York, was chartered in 1971. Students elected to Phi Beta Kappa are chosen from among those students who have achieved general scholastic excellence.

Sigma Xi is a national honor society founded in 1886 that encourages original research in the pure and applied sciences. Students are elected to membership on the basis of their accomplishments in research and their enthusiasm for continued scientific investigation.

In addition, most academic departments sponsor local chapters of national honor societies in their disciplines. The faculty are dedicated to encouraging student research efforts and are pleased to have students join them in their own research. Indeed, one of the hallmarks of Manhattan College is the frequency with which students and faculty join together in research projects.

Independent study courses are available in most departments for students seeking the opportunity to do advanced-level study with a faculty member in an area not ordinarily covered by regular coursework. In addition, many departments sponsor supervised internships and field-study opportunities through the department or through the Cooperative Education Program.

Of special note are the Branigan Scholars Grants. These grants, established in 1967 through the generous contributions of Edward Vincent Branigan '40 with matching gifts from major corporations and support from the National Endowment for the Humanities, provide summer stipends for students pursuing research projects independent of their course work.

## **Internships**

Opportunities for off-campus work experiences that carry course credit toward graduation are available to juniors and seniors in the School of Liberal Arts through internship courses offered by departments and programs. Internship courses are numbered 375 or 475. Frequent meetings with the internship advisor and a paper are required. Internships are arranged through the Center for Career Development and must be approved in advance by their chair or advisor and by the Dean of the School of Liberal Arts.

## **Graduate Awards and Fellowships**

Manhattan College is among a small, select group of American Colleges sending large numbers of students on to graduate schools. To continue this tradition, the college has developed programs to assist students seeking information about graduate programs and particularly about fellowships and scholarships for graduate study. Further information is available from the Center for Graduate School and Fellowship Advisement and from the departmental chairs.

## **Prelegal Advisory Committee**

Students interested in entering law school should seek guidance through the Prelegal Advisory Committee. In addition to personal interviews, the Committee conducts group meetings to advise students on specialized fields of law. The Committee also makes information available on requirements for admission to law schools, the availability of

scholarships, and special opportunities in the legal profession. Further information is available from Professor Patricia Sheridan of the School of Business.

## Health Professions Advisory Committee

The Health Professions Advisory Committee is a body of faculty members from several schools who give guidance to students interested in preparing for careers in medicine, dentistry and allied fields. The Committee advises students on the selection of programs of study that will furnish them with specialized pre-professional courses in the sciences and with a broad liberal education to prepare them for effective participation in the health-care community. Further information is available from the Office of the Chair of the Health Advisory Committee, Dr. Bruce Liby of the Physics Department.

Students seeking entry to health professions schools are encouraged to enroll in the pre-health minor. Students are not required to join the minor in order to receive an HPAC committee evaluation letter; however, participation is recommended in order to be included in the competitive cohort that applies to health professions schools each year.

## Preparation for Medicine and Dentistry

Requirements are established by the Association of American Medical Colleges, the American Dental Association, and other professional associations in the health field. The pre-professional requirements in the sciences are met within the context of a broad liberal education. Pre-professional students are expected to maintain an average of at least a B in their science courses.

The minimum required courses for admission to professional schools are:

BIOL 111 & BIOL 112	General Biology I and General Biology II	8
BIOL 113 & BIOL 114	and	0
CHEM 101 & CHEM 102	General Chemistry I and General Chemistry II	6
CHEM 319 & CHEM 320	Organic Chemistry I and Organic Chemistry II	6
CHEM 323 & CHEM 324	Organic Chemistry Laboratory I and Organic Chemistry Laboratory II	4
ENGL 110	First Year Composition	3

### 6 Credits of MATH are required.

#### Students should take:

MATH 155	Calculus for the Life Sciences I	3
MATH 185	Calculus I	3
MATH 187	Honors Calculus I	3
MATH 230	Elementary Statistics	3

#### Optional 2nd MATH course

MATH 156	Calculus for the Life Sciences II	3
MATH 186	Calculus II	3

MATH 188	Honors Calculus II	3
<b>PHYS requirements:</b>		
PHYS 101 & PHYS 191	Physics I and Physics I Lab	4
PHYS 102 & PHYS 192	Physics II and Physics II Lab	4
OR		
PHYS 107 & PHYS 197	Introduction to Physics I and	4
PHYS 108 & PHYS 198	Introduction to Physics II and	4
<b>Highly Recommended:</b>		
CHEM 433	Biochemistry I	3
BIOL 319	Cellular BioChemistry/Physiology	4
PSYC 150	Roots: Psychology	3
or SOC 150	Roots: Sociology	

*Specific schools may require or recommend other courses.*

*At least one course each in Biochemistry, Psychology, and Sociology are highly recommended by all medical [and dental] schools.*

Students seeking entry to health professions schools are encouraged to enroll in the pre-health concentration (<http://catalog.manhattan.edu/undergraduate/science/prehealth/>). Students are not required to join the concentration in order to receive an HPAC committee evaluation letter; however, participation is recommended in order to be included in the competitive cohort that applies to health professions schools each year.

## Outline of Course Requirements Leading to a Bachelor of Arts Degree with a Major in the Humanities or the Social Sciences Excluding Psychology

First Year	Credits	
LLRN 102		3
Roots Humanities or Social Sciences <sup>1</sup>		9
SCI <sup>2</sup>		3
Language both semesters <sup>3</sup>		6
RELS 110		3
ENGL 110		3
MATH <sup>4</sup>		3
		<b>30</b>

Second Year	Credits	
Roots Humanities or Social Sciences <sup>1</sup>		9
SCI <sup>2</sup>		6

Catholic Studies	3
Major and/or Elective	12
<b>30</b>	
<b>Third Year</b>	<b>Credits</b>
Roots Humanities or Social Sciences <sup>1</sup>	6
RELS Global Studies/Contemporary Issues	3
Major and/or Elective	21
<b>30</b>	
<b>Fourth Year</b>	<b>Credits</b>
Major and/or Elective	30
<b>30</b>	

**Total Credits: 120**

- <sup>1</sup> Students choose three from Roots Social Science Courses: ECON 150 Roots: Economics, POSC 150 Roots: Government, SOC 150 Roots: Sociology, PSYC 150 Roots: Psychology. Students take the following Roots Humanities courses: ENGL 150 Roots: Literature; HIST 150 Roots: History; PHIL 150 Roots: Philosophy; ART 150 Roots: Art or MUSC 150 Roots: Music.
- <sup>2</sup> The science courses SCI 201 Introduction Astronomy, SCI 202 Introduction Geology, SCI 203 Topics in Science I, SCI 204 Topics in Science II, SCI 221 Introduction Meteorology, SCI 230 Great Ideas in Physics, SCI 231 Chemistry in the Modern World and BIOL 103 Introduction to Biology. In place of the nine credit SCI requirement, students may take a full year of one of the following: PHYS 101 Physics I, PHYS 102 Physics II or PHYS 107 Introduction to Physics I, PHYS 108 Introduction to Physics II, CHEM 101 General Chemistry I, CHEM 102 General Chemistry II, BIOL 111 General Biology I, BIOL 112 General Biology II, BIOL 113 or BIOL 131 Principles of Biology I, BIOL 132 Principles of Biology II or BIOL 133 , BIOL 134 , along with one SCI course in a different science.
- <sup>3</sup> Placement by Modern Language Department.
- <sup>4</sup> Students generally take MATH 151 Topics in Modern Mathematics , MATH 185 Calculus I or MATH 230 Elementary Statistics.

Note: Students pursuing a B.A are required to complete at least 99 credits in the Liberal Arts and Sciences.

## Outline of Course Requirements Leading to a Bachelor of Arts Degree with a Major in Psychology

<b>First Year</b>	<b>Credits</b>
PSYC 214	3
LLRN 102	3
ENGL 110 (first or second semester)	3
RELS 110	3
MATH first or second semester <sup>4</sup>	3

Roots Humanities or Social Sciences first or second semester <sup>2</sup>	6
PSYC 150	3
Language both semesters <sup>1</sup>	6
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<b>Second Year</b>	<b>Credits</b>
PSYC 314	3
PSYC 414	3
Roots Humanities or Social Sciences <sup>2</sup>	6
PSYC Applied	3
Catholic Studies	3
Electives	6
SCI <sup>3</sup>	6
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	<b>30</b>
<b>Third Year</b>	<b>Credits</b>
PSYC Social/Developmental	6
RELS Global Studies/Contemporary Issues	3
SCI <sup>3</sup>	3
Electives	15
Roots Humanities or Social Sciences <sup>2</sup>	3
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	<b>30</b>
<b>Fourth Year</b>	<b>Credits</b>
PSYC Clinical/Cognitive/Physiological	9
Electives	21
<hr/>	
	<b>30</b>

**Total Credits: 120**

<sup>1</sup> Placement by Modern Language Department.

<sup>2</sup> Students choose two from Roots Social Science courses: ECON 150 Roots: Economics, POSC 153 Roots:Government - FYS or SOC 153 Roots: Sociology - FYS. Students take the following Humanities courses: ENGL 151 Roots: Literature-1st Year Seminar; HIST 152 Roots: History - FYS; PHIL 152 Roots of Modern Age: Philosophy - FYS; ART 151 Roots:Art -FYS or MUSC 151 Roots:Music-1st Year Seminar.

<sup>3</sup> The science courses are SCI 201 Introduction Astronomy, SCI 202 Introduction Geology, SCI 203 Topics in Science I, SCI 204 Topics in Science II, SCI 221 Introduction Meteorology, SCI 230 Great Ideas in Physics, SCI 231 Chemistry in the Modern World and BIOL 103 Introduction to Biology. In place of the nine credit SCI requirement, students may take one full year of the following: PHYS 101 Physics I and PHYS 102 Physics II or PHYS 107 Introduction to Physics I and PHYS 108 Introduction to Physics II, CHEM 101 General Chemistry I and CHEM 102 General Chemistry II, BIOL 111 General Biology I, BIOL 112 General Biology II, BIOL 113 or BIOL 131 Principles of Biology I, BIOL 132 Principles of Biology II, BIOL 133 , BIOL 134 , along with one SCI course in a different science.

<sup>4</sup> *MATH 230 Elementary Statistics is highly recommended for students pursuing a degree in Psychology.*

*Note: Students pursuing a B.A. are required to complete at least 99 credits in the Liberal Arts and Sciences.*

## Outline of Course Requirements Leading to a Bachelor of Science Degree with a Major in Psychology

<b>First Year</b>	<b>Credits</b>
LLRN 102	3
Language both semesters <sup>1</sup>	6
One of the following groups	8
BIOL 111 & BIOL 113	
BIOL 112 & BIOL 114	
ENGL 110 (first or second semester)	3
MATH 185 or 230	3
PSYC 150	3
PSYC 214	3
	<b>29</b>

<b>Second Year</b>	<b>Credits</b>
One of the following groups	8
PSYC 314	3
BIOL 207 & BIOL 208	8
RELS 110	3
PSYC 414	3
CHEM 101 & CHEM 102	
PHYS 107 & PHYS 108	
Electives	3
Roots Humanities or Social Sciences <sup>2</sup>	6
	<b>34</b>

<b>Third Year</b>	<b>Credits</b>
Roots Humanities or Social Sciences <sup>2</sup>	12
Catholic Studies	3
Electives	3

PSYC Applied/Developmental/ Psychological/Social	12
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<b>Fourth Year</b>	<b>Credits</b>	<b>30</b>
Electives		15
PSYC Cognitive/Clinical		9
RELS Global Studies/Contemporary Issues		3
		<b>27</b>

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**Total Credits: 120**

<sup>1</sup> Placement by Modern Language Department.

<sup>2</sup> Students choose two from Roots Social Science courses: ECON 150 Roots: Economics, POSC 150 Roots: Government, or SOC 150 Roots: Sociology. Students take the following Humanities courses: ENGL 151 Roots: Literature-1st Year Seminar; HIST 150 Roots: History; PHIL 150 Roots: Philosophy; ART 151 Roots: Art -FYS or MUSC 151 Roots: Music-1st Year Seminar.