# Suggested Course Outline

**JOHN CARROLL UNIVERSITY**

Cleveland, OH

<table>
<thead>
<tr>
<th>FIELD OF STUDY</th>
<th>CREDIT HOURS</th>
<th>SUGGESTED COURSES</th>
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| English                     | 6 semester hours | EN 111 Composition and Rhetoric I  
EN 112 Composition and Rhetoric II  
Other English, communications, literature, or writing courses. |
| Biology                     | 2 courses     | BL 155 Principles of Biology I  
BL 157 Principles of Biology Laboratory I  
BL 156 Principles of Biology II  
BL 158 Principles of Biology Laboratory II  
Other Biology courses including anatomy & physiology, botany, cell biology, genetics, microbiology, neurobiology, zoology. |
| Chemistry General or Inorganic | 2 courses     | CH 141 General Chemistry I  
CH 143 General Chemistry Laboratory I  
CH 142 General Chemistry II  
CH 144 General Chemistry Laboratory II |
| Chemistry Organic or Biochemistry | 2 courses     | CH 221 Organic Chemistry I  
CH 223 Organic Chemistry Laboratory I  
CH 222 Organic Chemistry II  
CH 224 Organic Chemistry Laboratory II |
| Physics                     | 2 courses     | PH 125 General Physics I  
PH 125L General Physics Laboratory I  
PH 126 General Physics II  
PH 126L General Physics Laboratory II  
Statistics, exercise physiology, biomechanics, or kinesiology may be accepted for one Physics course. |
| Psychology                  | 3 semester hours | PSY 101 Introduction to Psychology  
Other Psychology courses including abnormal, child, community, developmental, experimental, educational, perceptual. |
| Social Science/Humanities   | 15 semester hours | Social Science/Humanities courses including those in economics, education, history, political science, psychology, anthropology, art/drama/music/film history or appreciation, languages, literature, english, logic, philosophy, and religion. |

Science prerequisites are listed as guidelines only, and may vary. Students should contact the Office of Admissions to determine the exact science coursework required. All non-science credit hour requirements are as listed.

Each course must transfer at the baccalaureate level with a minimum 2.0 on a 4.0 scale. Students must have earned a baccalaureate degree with a minimum GPA of 3.00 on a 4.0 scale. However, those students with a cumulative GPA between 2.75-2.99 may be considered for admissions under an Alternative Admissions Track (AATP). Please refer to the National University of Health Sciences Bulletin for additional admission requirements.

Suggested courses obtained from John Carroll University 2018 catalog. This document is intended to assist with academic planning and does not constitute a contract. It is the responsibility of the student to keep abreast of changes in course offerings and program requirements.