Table A: Laboratory Science Technology (LABSCI-AAS) AY 2023-2024  
*Calendar Type:* Semester

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Term: Fall 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NLST-120 Laboratory Tools | 3 |  | 3 |  |  |  |
| NLST-171 Fundamentals of Chemistry I | 3 |  | 3 |  |  |  |
| General Education – Scientific Principles Perspective: NSCI-161 Fundamentals of Biology I | 3 | 3 |  |  |  |  |
| General Education – Elective: NMTH-212 Integrated Algebra or higher | 3 | 3 |  |  |  |  |
| General Education – Elective\* | 3 | 3 |  |  |  |  |
| NCAR-010 Freshman Seminar | 0 |  | 0 |  |  |  |
| **Term Credit Total:** | 15 | 9 | 6 | 0 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Term: Spring 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NLST-172 Fundamentals of Chemistry II | 3 |  | 3 |  |  | NLST-171 |
| NSCI-162 Fundamentals of Biology II | 3 |  | 3 |  |  | NSCI-161 |
| NLST-220 Analytical Chemistry | 4 |  | 4 |  |  | NLST-171, NLST-120 |
| General Education – Ethical Perspective\* | 3 | 3 |  |  |  |  |
| General Education – First Year Writing (WI) | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 16 | 6 | 10 | 0 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Term: Summer 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| None |  |  |  |  |  |  |
| **Term Credit Total:** | 0 | 0 | 0 | 0 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Term: Fall 2** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NLST-250 Quantitative Instrumental Analysis | 4 |  | 4 |  |  | NLST-220, NLST-172 |
| NLST-240 Biotechnology I | 3 |  | 3 |  |  | NSCI-162 |
| NLST-230 Principles of Organic Chemistry | 4 |  | 4 |  |  | NLST-172, NSCI-162 |
| NLST-225 Laboratory Applications | 3 |  | 3 |  |  | NLST-220 |
| NLST-232 Laboratory Mathematics | 3 |  | 3 |  |  | NMTH-212 |
| **Term Credit Total:** | 17 | 0 | 17 | 0 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Term: Spring 2** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NLST-255 Chemical Separations & Chromatography | 4 |  | 4 |  |  | NLST-250, NLST-230 |
| NLST-245 Biotechnology II | 3 |  | 3 |  |  | NLST-240 |
| NLST-235 Principles of Biochemistry | 3 |  | 3 |  |  | NLST-230 |
| NLST-260 Laboratory Methods | 3 |  | 3 |  |  | NLST-225 |
| General Education – Artistic Perspective\* | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 16 | 3 | 13 | 0 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Term: Summer 2** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NLST-299 Co-op: Laboratory Science Technology |  |  | 0 |  |  | NLST-255 |
| **Term Credit Total:** | 0 | 0 | 0 | 0 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Term: Fall 3** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| Technical Elective\*\* | 3 |  | 3 |  |  |  |
| Technical Elective\*\* | 3 |  | 3 |  |  |  |
| General Education – Global Perspective\* | 3 | 3 |  |  |  |  |
| General Education – Social Perspective\* | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 12 | 6 | 6 | 0 |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Total Credits (CR)** | **General Education (GE)** | **Major(MAJ)** | **Electives & Other**  **(OPEN)** |
| **Program Totals** | **76** | **24** | **52** | **0** |

***Notes:***

1. All students pursuing an Associate’s degree are also required to complete one Wellness course.

**\*** An ASL-Deaf Cultural Studies (AASASLDCS) course is required for graduation. It can be taken in any semester and can be taken at NTID or another college of RIT. In order to fulfill this requirement as part of the 76 credits in the program, it should be a course approved for *both* AASASLDCS *and* a General Education - Perspective or General Education - Elective.

|  |
| --- |
| **\*\*Technical Electives** |
| NLST-270 Chemical Technology |
| NLST-285 Undergraduate Research: Laboratory Science Technology (department approval required) |
| NMTH-220 or above (department approval required) |
| NSCI-120 or above (department approval required) |
| BIOL-101 General Biology I (department approval required) |
| BIOL-121 Introductory Biology I (department approval required) |
| CHEM-130 Chemical Connections (department approval required) (pre-req: restricted to CHEM-BS or BIOCHEM-BS Major students\*\*\*) |
| CHEM-151 General Chemistry (department approval required) (pre-req: restricted to CHEM-BS or BIOCHEM-BS Major students.\*\*\* co-req: CHEM-155 or equivalent course) |
| CHEM-155 Chemistry Workshop (department approval required) (pre-req: restricted to CHEM-BS or BIOCHEM-BS Major students.\*\*\* co-req: CHEM-151 or equivalent course) |
| CHMG-141 General & Analytical Chemistry I (department approval required) |
| STAT-145 Introduction to Statistics I (department approval required) (pre-req: Any 100 level MATH course, or NMTH-260 or NMTH-272 or NMTH-275 or (NMTH-250 with a C- or better) or a Math Placement Exam score of at least 35) |
| MATH-161 Applied Calculus (department approval required) (pre-req: C- or better in MATH-101, MATH-111, MATH-131, NMTH-260, NMTH-272 or NMTH-275 or Math Placement Exam score greater than or equal to 45) |
| MATH-171 Calculus A (department approval required) (pre-req: Completion of the math placement exam or C- or better in MATH-111 or C- or better in ((NMTH-260 or NMTH-272 or NMTH-275) and NMTH-220) or equivalent course) |
| MATH-181 Project-Based Calculus I (department approval required) (pre-req: MATH-111 or (NMTH-220 and NMTH-260 or NMTH-272 or NMTH-275) or equivalent courses with a minimum grade of B-, or a score of at least 65% on the RIT Mathematics Placement Exam. Co-req: MATH-181R or equivalent course) |
| MEDG-101 Human Biology I (department approval required) |
| MEDS-201 Language of Medicine (department approval required) |
| MEDS-250 Human Anatomy and Physiology I (department approval required) (pre-req: (BIOL-123 and BIOL-124 and BIOL-125 and BIOL-126) or (BIOL-123 and BIOL-124) or (BIOL-101 and BIOL-102) or (BIOL-121 and BIOL-122) or MEDG-102 or equivalent course or NUTR-BS or NUTRSC-BS students) |
| Other courses (department approval required) |

\*\*\*course option is available for LABSCI-AAS students who have been accepted into either of these BS programs

**Change Log**

|  |  |
| --- | --- |
| **Effective Term** | **Curriculum Modification(s)** |
| 2221 |  |
| 2211 | New addition to the table |
| Older | 4-4-13ssl; 2-15-19ph; 3-25-15ph; 5-7-15mg; 4-19-17mg; 5-30-17fxk; 9-10-18fxk(Wellness added) |