| Name | ID# | Date |
|---|---|---|
| | | |

# Planning Sheet: Clinical Lab Science

(Effective Fall 2008. This major consists of 13 courses and a 12 month clinical rotation)

## Biology Requirements

| Term | Grade | Course # | Lib. Arts | Title |
|---|---|---|---|---|
| 1st Fall | ____ | BIO 151 | NSM-L & EM | Introductory Biology (Prereq: MPG 3 or concurrent registration in MAT 105, and concurrent registration in CHM 105 or 115) |
| 1st Spr | ____ | BIO 152 | NSM-L | Evolution, Ecology, and Diversity (Prereq: MPG 3 & BIO 151) |
| 2nd Fall | ____ | BIO 253 | | Introductory Cellular Biology (Prereq: BIO 151 and 152 and CHM 106 or 116) |
| 3nd Spr | ____ | BIO 355 | | Genetics (Prereq: BIO 253) |
| 3rd Fall | ____ | BIO 369 | | Biochemistry (Prereq: BIO 253 and CHM 352) |
| 3rd Fall | ____ | BIO 473 | | Animal Physiology (Prereq: BIO 253) |
| 2rd Spr | ____ | BIO 476 | | Microbiology (Prereq: BIO 253) |
| 3rd Spr | ____ | BIO 486 | | Immunology (BIO 369) |
| 4th Spr | ____ | SCI 490 | | Keystone Course (.5 cr) |

## Chemistry Requirements

| | | | | |
|---|---|---|---|---|
| 1st Fall | ____ | CHM 115 | NSM-L | General Chemistry I (Prereq: HS Chemistry & MPG 4) |
| 1st Spr | ____ | CHM 116 | NSM-L | General Chemistry II (Prereq: CHM 115) |
| **OR** | | | | |
| 1st Fall | ____ | CHM 105 | NSM-L | Principles of Chemistry I (Prereq: MPG 2 and concurrent reg. in MAT 105, or MPG 3) |
| 1st Spr | ____ | CHM 106 | NSM-L | Principles of Chemistry II (Prereq: CHM 105 and MPG 3) |

Organic Chemistry

| | | | | |
|---|---|---|---|---|
| 2nd Fall | ____ | CHM 351 | | Organic Chemistry I (Prereq: CHM 106 or 116) |
| 2rd Spr | ____ | CHM 352 | | Organic Chemistry II (Prereq: CHM 106 or 116) |

## Math Requirement

| | | | | |
|---|---|---|---|---|
| 2nd Spr | ____ | MAT 163 | NSM | Introductory Statistics (Prereq: MPG 3) |

**Fourth Year Clinical Program:** This portion of the curriculum is 12 months in length and is satisfied during the senior year. All other major and core curriculum requirements must be complete before starting these courses. (¾ Sum. = Summer session between third and fourth year).

| | | | |
|---|---|---|---|
| ¾ Sum. | ____ | CLS 400 | Introduction to Clinical Lab Science |
| ¾ Sum. | ____ | CLS 405 | Body Fluids (lecture and lab) |
| ¾ Sum. | ____ | CLS 410 | Clinical Hematology/Hemostasis (lecture and lab) |
| ¾ Sum. | ____ | CLS 415 | Clinical Immunology (lecture and lab) |
| ¾ Sum. | ____ | CLS 420 | Immunohematology (lecture and lab) |
| 4th Fall | ____ | CLS 425 | Clinical Chemistry (lecture and Lab) |
| 4th Fall | ____ | CLS 430 | Clinical Microbiology (lecture and lab) |
| 4th Fall | ____ | CLS 433 | Virology/Mycology/Parasitology |
| 4th Fall | ____ | CLS 435 | Molecular Diagnostics |

| | | | |
|---|---|---|---|
| 4th Fall | ____ | SCI 490 | Keystone |
| 4th Spr | ____ | CLS 440 | Laboratory Management and Education |
| 4th Spr | ____ | CLS 445 | Research Design and Methods |
| 4th Spr | ____ | CLS 475 | Advanced Applications in CLS |
| 4th Spr | ____ | CLS 480 | Advanced Topics in CLS |
| 4th Spr | ____ | CLS 485 | Advanced Studies in CLS |

**Clinical Rotations:** 4th year fall and spring terms

| | | | |
|---|---|---|---|
| 4th F & S | ____ | CLS 450 | Applied Clinical Chemistry |
| 4th F & S | ____ | CLS 455 | Applied Hematology/Hemostasis |
| 4th F & S | ____ | CLS 460 | Applied Immunology |
| 4th F & S | ____ | CLS 465 | Applied Immunohematology |
| 4th F & S | ____ | CLS 470 | Applied Clinical Microbiology |

**Notes:**

- **Keystone:** SCI 490: Integrated Science (.5 credit) is recommended to meet the Keystone requirement. BIO 490, a Biology-specific Keystone course, is currently in development. Discuss this possibility with your Biology faculty advisor.
- **B.S. Waiver**: Student completing the B.S. in Clinical Lab Science may waive two Liberal Arts Foundation courses (in two different areas), or waive the two-course Modern Language requirement.
- **Abbreviation Key:** ML = Modern Language; SC = Signature Curriculum; EM = Engaging Minneapolis; AE = Augsburg Experience; KC = Senior Keystone Course; NSM = Natural Science & Mathematics - no lab; NSM-L = Natural Science & Mathematics-with lab; SBS = Social & Behavioral Science; FA = Fine Arts; HUM = Humanities

## Planning Sheet: GRADUATION SKILLS REQUIREMENTS

These requirements were implemented for Fall 2008. Please talk with your faculty advisor for information.

**Graduation skills, including the Quantitative Reasoning requirements, are completed as follows.** Graduation skills in Critical Thinking, Writing, Speaking, and Quantitative Reasoning are required for graduation. Critical Thinking is embedded in all majors. Plans for completion of other graduation skills are determined by the major department. Consult your department chair or faculty advisor to select appropriate courses to meet the Quantitative Reasoning (QR) graduation skill. QR is satisfied by completing one (1) Quantitative Foundational course (QF) and one (1) Quantitative Application course (QA), or one (1) combined QFA course. The most current information on Graduation Skills can be found online at www.augsburg.edu/catalog/ and clicking on "Graduation Skills Catalog Supplement 2008 – 2010" near the bottom of the page.

**Transfer students must consult an advisor about potential adjustments to their course requirements to fulfill each graduation skill.**

| Designated Major Course | GRADUATION SKILLS – Clinical Lab Science | | Completed |
|---|---|---|---|
| Embedded in major | **Writing Requirements**<br>TWO (2) Writing courses | | |
| Embedded in major | | | |
| COM 111 or 115 | **Speaking**<br>One (1) Speaking course | | |
| Designated Major Course | **QUANTITATIVE REASONING** | | Completed |
| Embedded in major | **Quantitative Foundations & Applications**<br>One (1) QFA course (Prereq: MPG3) | QFA course | |
| ***– OR –*** | | | |
| Embedded in major | **Quantitative Foundations and Quantitative Applications**<br>One (1) QF course (Prereq: MPG 3) **and** one (1) QA course | QF course | |
| Embedded in major | | QA course | |

# Graduation Tally Checklist

These requirements were implemented in April 2003 and remain in effect until further notice.

| Requirement | Progress Towards Completion | |
|---|---|---|
| **Cumulative Course Credits**<br>▪ Minimum number of course credits needed for graduation = **32**<br>▪ At least 8 credits completed at Augsburg.<br>▪ 6 of last 8 credits completed in residence.<br>▪ Second degree – minimum of 8 credits completed in residence. | Transfer Credits Earned | |
| | + Aug. Credits Earned | |
| | = Total Credits Earned | |
| | # Credits Needed | |

| | | |
|---|---|---|
| **Grade Point Average (GPA)**<br>▪ Minimum 2.0 GPA required in major, minor, & overall.<br>▪ Some majors require higher GPA.<br>▪ Latin Honors GPA requirements:<br>o Summa cum laude: 3.9-4.0<br>o Magna cum laude: 3.80-3.89<br>o Cum laude: 3.60-3.79 | Cumulative GPA | |
| | Major 1 GPA | |
| | Major 2 GPA | |
| | Minor GPA | |

| Other Limits | Minimum/Maximum | Your Total |
|---|---|---|
| **Overall maximum courses graded Pass/No Pass (P/N)**<br>▪ Grade of 2.0 or above required to Pass and earn credit for course.<br>▪ Maximum of 2 of 6 credits P/N may be in major. | Maximum of 6 | |
| **Major Courses graded Pass/No Pass (P/N)** | Maximum of 2 | |
| **Latin Honors courses graded Pass/No Pass (P/N)** | Maximum of 2 | |
| **Latin Honors traditionally graded courses** | Minimum of 14 | |
| **Internships** | Maximum of 4 | |
| **Independent/Directed Studies** | Maximum of 2 | |