| CORE PLAN - CONSULT BLS ADVISOR TO STAY ON TRACK IN PROGRAM  |   |
|--|---|
| Freshman Fall  | Freshman Spring   |
| CEM 141 General Chemistry (4)  | WRA 101 Writing, Rhetoric, American Culture (4)   |
| 🗆 CEM 161 Chemistry Lab I (1)  | BS 161 Cell and Molecular Biology (3)   |
| $\square$ MTH (based on math placement) (3-5)  | BS 171 Cell and Molecular Biology Lab (2)   |
| BLD 121 Survive & Thrive Freshman Seminar (1)  | Image: MTH 124/132 Calculus (3)   |
| ISS 2XX Int Stud Social Sci (4)  | CEM 162 Chemistry Lab II (1)  |
|  |   |
| Sophmore Fall  | Sophmore Spring   |
| BLD 213L Clinical Laboratory Methods (2)   | CEM 252 Organic Chemistry II (3)  |
| CEM 251 Organic Chemistry I (3)  | PHY 232 Introductory Physics II (3)   |
| PHY 231 Introductory Physics (3)   | BLD 313 Quality Medical Laboratory Methods (3)  |
| PSL 310 Physiol for Pre-Health Prof (4)  | BLD 204 Mechanisms of Disease (3)   |
| STT 231 (or STT 200) Statistics (3)  | Image MMG 201 Fundamentals of Microbiology (3)  |
| Junior Fall  | Junior Spring   |
| BLD 434 Clinical Immunology (3)  | BLD 430 Molecular Diagnostics (2)   |
| BLD 324 Hematology and Hemostasis (3)  | MMG 365 Medical Microbiology (3)  |
| BLD 314L Adv Clinical Laboratory Methods (1)   | Image MMG 365L Medical Microbiology Lab (1)   |
| BMB 401 Basic Biochemistry (4)   | BLD 302 Clinical Chemistry (2)  |
| IAH 201-210 Int Stud in Arts and Hum (4)   | BLD 435 Immunohematology (2)  |
|  | ISS 3XX Int Stud Social Sci (4)   |
| APPLY TO MLS PROGRAM IN DECEMBER OR  | PICK A BLS CONCENTRATION FOR SENIOR YEAR  |
| BLS Concentration options  | Career Pathways   |
| Clinical Chemistry: Advanced focus in clincal chemistry  | Toxicology/forensics labs, pharma industry, grad  |
| methods and correlations   | school, pre-MD/DO/PA/PharmD/Vet/path assistant  |
| Immunology: Advanced focus in immunology theory  |   |
|  | Immunology refernce lab, flow cytometry research,   |
| and laboratory applications  | Immunology refernce lab, flow cytometry research,<br>grad school, pre-MD/DO/PA/PharmD/Vet/path  |
| and laboratory applications  |   |
| and laboratory applications Medical Microbiology: Advanced focus in medical  | grad school, pre-MD/DO/PA/PharmD/Vet/path   |
|  | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science   |
| Medical Microbiology: Advanced focus in medical  | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,  |
| <b>Medical Microbiology:</b> Advanced focus in medical microbiology laboratory diagnosis, epidemiology and   | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path   |
| <b>Medical Microbiology:</b> Advanced focus in medical microbiology laboratory diagnosis, epidemiology and prevention  | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant  |
| Medical Microbiology: Advanced focus in medical<br>microbiology laboratory diagnosis, epidemiology and<br>prevention<br>Hematology and Hemostasis: Advanced focus in   | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant<br>Research/industry lab, graduate school, oncology, pre-  |
| Medical Microbiology: Advanced focus in medical<br>microbiology laboratory diagnosis, epidemiology and<br>prevention<br>Hematology and Hemostasis: Advanced focus in<br>diagnostic testing related to hematologic and  | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant<br>Research/industry lab, graduate school, oncology, pre-<br>MD/DO/PA/PharmD/Vet/path assistant  |
| Medical Microbiology: Advanced focus in medical<br>microbiology laboratory diagnosis, epidemiology and<br>prevention<br>Hematology and Hemostasis: Advanced focus in<br>diagnostic testing related to hematologic and<br>hemostatic diseases.  | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant<br>Research/industry lab, graduate school, oncology, pre-<br>MD/DO/PA/PharmD/Vet/path assistant  |
| Medical Microbiology: Advanced focus in medical<br>microbiology laboratory diagnosis, epidemiology and<br>prevention<br>Hematology and Hemostasis: Advanced focus in<br>diagnostic testing related to hematologic and<br>hemostatic diseases.<br>Medical Laboratory Science: Advanced preparation for<br>accredited medical laboratory science internship  | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant<br>Research/industry lab, graduate school, oncology, pre-<br>MD/DO/PA/PharmD/Vet/path assistant<br>Diagnostic medical laboratories including hospitals,<br>reference labs, doctor's offices, graduate school,  |
| Medical Microbiology: Advanced focus in medical<br>microbiology laboratory diagnosis, epidemiology and<br>prevention<br>Hematology and Hemostasis: Advanced focus in<br>diagnostic testing related to hematologic and<br>hemostatic diseases.<br>Medical Laboratory Science: Advanced preparation for<br>accredited medical laboratory science internship<br>covering clinical chemistry, medical microbiology,  | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant<br>Research/industry lab, graduate school, oncology, pre-<br>MD/DO/PA/PharmD/Vet/path assistant<br>Diagnostic medical laboratories including hospitals,<br>reference labs, doctor's offices, graduate school,<br>quality assurance, pre-MD/DO/PA/PharmD/Vet/path   |
| Medical Microbiology: Advanced focus in medical<br>microbiology laboratory diagnosis, epidemiology and<br>prevention<br>Hematology and Hemostasis: Advanced focus in<br>diagnostic testing related to hematologic and<br>hemostatic diseases.<br>Medical Laboratory Science: Advanced preparation for<br>accredited medical laboratory science internship  | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant<br>Research/industry lab, graduate school, oncology, pre-<br>MD/DO/PA/PharmD/Vet/path assistant<br>Diagnostic medical laboratories including hospitals,<br>reference labs, doctor's offices, graduate school,  |
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| Medical Microbiology: Advanced focus in medical<br>microbiology laboratory diagnosis, epidemiology and<br>prevention<br>Hematology and Hemostasis: Advanced focus in<br>diagnostic testing related to hematologic and<br>hemostatic diseases.<br>Medical Laboratory Science: Advanced preparation for<br>accredited medical laboratory science internship<br>covering clinical chemistry, medical microbiology,<br>hematology/hemostasis, and immunohematology   | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant<br>Research/industry lab, graduate school, oncology, pre-<br>MD/DO/PA/PharmD/Vet/path assistant<br>Diagnostic medical laboratories including hospitals,<br>reference labs, doctor's offices, graduate school,<br>quality assurance, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, DCLS  |
| Medical Microbiology: Advanced focus in medical<br>microbiology laboratory diagnosis, epidemiology and<br>prevention<br>Hematology and Hemostasis: Advanced focus in<br>diagnostic testing related to hematologic and<br>hemostatic diseases.<br>Medical Laboratory Science: Advanced preparation for<br>accredited medical laboratory science internship<br>covering clinical chemistry, medical microbiology,<br>hematology/hemostasis, and immunohematology<br>Molecular Diagnostics: Advanced focus on molecular   | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant<br>Research/industry lab, graduate school, oncology, pre-<br>MD/DO/PA/PharmD/Vet/path assistant<br>Diagnostic medical laboratories including hospitals,<br>reference labs, doctor's offices, graduate school,<br>quality assurance, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, DCLS<br>Research/industry labs, forensics, genetic counseling,  |
| Medical Microbiology: Advanced focus in medical<br>microbiology laboratory diagnosis, epidemiology and<br>prevention<br>Hematology and Hemostasis: Advanced focus in<br>diagnostic testing related to hematologic and<br>hemostatic diseases.<br>Medical Laboratory Science: Advanced preparation for<br>accredited medical laboratory science internship<br>covering clinical chemistry, medical microbiology,<br>hematology/hemostasis, and immunohematology<br>Molecular Diagnostics: Advanced focus on molecular<br>diagnostics with emphasis in clinical, forensic, and                   | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant<br>Research/industry lab, graduate school, oncology, pre-<br>MD/DO/PA/PharmD/Vet/path assistant<br>Diagnostic medical laboratories including hospitals,<br>reference labs, doctor's offices, graduate school,<br>quality assurance, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, DCLS<br>Research/industry labs, forensics, genetic counseling,<br>bioinformatics, graduate school, pre-MD/DO/PA/path              |
| Medical Microbiology: Advanced focus in medical<br>microbiology laboratory diagnosis, epidemiology and<br>prevention<br>Hematology and Hemostasis: Advanced focus in<br>diagnostic testing related to hematologic and<br>hemostatic diseases.<br>Medical Laboratory Science: Advanced preparation for<br>accredited medical laboratory science internship<br>covering clinical chemistry, medical microbiology,<br>hematology/hemostasis, and immunohematology<br>Molecular Diagnostics: Advanced focus on molecular<br>diagnostics with emphasis in clinical, forensic, and<br>research areas | grad school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, transplantation science<br>Public health, epidemiology, infection control,<br>graduate school, pre-MD/DO/PA/PharmD/Vet/path<br>assistant<br>Research/industry lab, graduate school, oncology, pre-<br>MD/DO/PA/PharmD/Vet/path assistant<br>Diagnostic medical laboratories including hospitals,<br>reference labs, doctor's offices, graduate school,<br>quality assurance, pre-MD/DO/PA/PharmD/Vet/path<br>assistant, DCLS<br>Research/industry labs, forensics, genetic counseling,<br>bioinformatics, graduate school, pre-MD/DO/PA/path<br>assistant |

CORE PLAN - CONSULT BLS ADVISOR TO STAY ON TRACK IN PROGRAM

## **BLS SENIOR YEAR PLANNING GUIDE**

**Clinical Chemistry: 1)** 
□ BLD 402 Adv Clin Chem, 2) 
□ BLD 456 Med Lab Prof, 3) 
□ CEM 333 Instr Meth and Apps, 4) 
□ IAH 211+ Int Arts Humanities, 5) 
□ Selective 1, 
□ Selective 2
Selective options: BE 230, CEM 255, CEM 262, CEM 311, CEM 383, PHM 350, PHM 321, PHM 430, PHM 450

Immunology: 1)□BLD 452L Immuno Lab, 2)□BLD 456 Med Lab Prof 3) pick two: □BLD 439 Histo andImmunogen, □BLD 446 Immunobio of Neoplasia, □BLD 447 Immunomod & Immunother, 4) pick one: □MMG 409 Euk Cell Bio or □MMG 461 Mol Path, 5)□IAH 211+ Int Arts Humanities, 6)□SelectiveSelective options: MMG 465, MMG 431, IBIO 341, EPI 390

**Medical Microbiology:** 1) 
MMG 465 Adv Med Micro, 2) 
MMG 465L Adv Med Micro Lab, 3) 
BLD 456 Med Lab Prof, 4) 
MMG 461 Mol Path, 5) 
IAH 211+ Int Arts Humanities, 6) 
Selective Selective options: BE 230, BLD 366, BLD 861, EPI 290, EPI 390, HM 801, MMG 413, MMG 421, MMG 431

Hematology and Hemostasis: 1) □ BLD 424 Adv Heme and Hemo, 2) □ BLD 424L Adv Heme, Hemo & Urine Lab,
3) □ BLD 456 Med Lab Prof, 4) pick two: □ BLD 439 Histo and Immunogen, □ BLD 446 Immunobio of Neoplasia,
□ BLD 447 Immunomod & Immunother, 5) □ IAH 211+ Int Arts Humanities, 6) □ Selective
Selective options: BLD 815, IBIO 341, IBIO 408, IBIO 425, IBIO 450, MMG 409, PHM 350

**Medical Laboratory Science:** 1) 
□ BLD 402 Adv Clin Chem, 2) 
□ BLD 424 Adv Heme and Hemo, 3) 
□ BLD 424L Adv Heme, Hemo, and Urine Lab, 4) 
□ BLD 435L Immunohem Lab, 5) 
□ MMG 465 Adv Med Micro, 6) 
□ MMG 465L Adv Med Micro Lab, 7) 
□ BLD 456 Med Lab Prof, 8) 
□ IAH 211+ Int Arts Humanities

**Molecular Diagnostics:** 1) 
BLD 430L Mol Diag Lab, 2) 
BLD 460 Adv Mol Diag, 3) 
CMSE 201 Intro Comp Modeling, 4) 
BLD 456 Med Lab Prof, 5) 
IAH 211+ Int Arts Humanities, 5) 
Selective Selective options: MMG 409, MMG 431, MMG 433

Minor in Information Technology: 1) 
CSE 102 Algorith Think/Prgm, 2) 
CSE 201 Fund Info Tech, 3) CSE 231 Intro Prog I, 4) 
ITM 311 Sys Analysis Design, 5) 
MI 201 Media Info Tech, 6) 
IAH 211+ Int Arts Humanities, 7) 
BLD 456 Med Lab Prof, 8) 
BLD 443 Intro Lab Info Sys, 9) 
BLD 444 Lab Info Tech Pract/Project Management NOTE: THE COURSES FOR THE IT MINOR SHOULD BEGIN IN FRESHMAN OR SOPHMORE YEAR

<sup>\*</sup>Many of the courses in the Arts and Humanities and Social, Behavioral, and Economic Sciences arenas, emphasize national diversity (designated "N" at the end of the course title), or international and multi-cultural diversity (designated "I" at the end of the course title). Some courses emphasize both national diversity, and international and multi-cultural diversity (designated "D" at the end of the course title). Students must include at least one "N" course and one "I" course in their Integrative Studies programs. A "D" course may meet either an "N" or an "I" requirement but not both