GEORGE MASON UNIVERSITY
COLLEGE OF SCIENCE
B.S. DEGREE IN Medical Laboratory Science (Exploratory Hall-1200, 703-993-1050)
2019-2020 Catalog

### MASON CORE REQUIREMENTS (24)

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGH 101 (100) (3)</td>
<td></td>
</tr>
<tr>
<td>COMM (3) (100 or 101)</td>
<td></td>
</tr>
<tr>
<td>N/A Quantitative Reasoning (satisfied by completion of major requirements)</td>
<td>XXXX</td>
</tr>
<tr>
<td>Literature (3)*</td>
<td>XXXX</td>
</tr>
<tr>
<td>Western Civilization HIST 100 or HIST 125 (3)</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Science (3)</td>
<td></td>
</tr>
<tr>
<td>N/A Natural Science Sequence (satisfied by completion of major requirements)</td>
<td>XXXX</td>
</tr>
<tr>
<td>Global Understanding (3)²,³,⁴</td>
<td>XXXX</td>
</tr>
<tr>
<td>N/A Information Technology (satisfied by completion of major requirements)</td>
<td>XXXX</td>
</tr>
<tr>
<td>ENGH 302 (C or better) (3)</td>
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<tr>
<td>Synthesis (3)</td>
<td></td>
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</table>

*A listing of courses satisfying many of the general education requirements can be found on the reverse side of this sheet.

### MAJOR REQUIREMENTS: BIOLOGY [CORE] (28)

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
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<tbody>
<tr>
<td>BIOL 213 (4) Cell Biology</td>
<td></td>
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<tr>
<td>BIOL 214 (4) Introduction to Biostatistics</td>
<td></td>
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<tr>
<td>BIOL 305/306 (3/1) Microbiology/Lab (Prerequisite BIOL 213)</td>
<td></td>
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<tr>
<td>BIOL 311 (4) General Genetics (Students must have completed 213, 214)</td>
<td></td>
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<tr>
<td>BIOL 430 (4) Advanced Human Anatomy &amp; Physiology I (Students must complete BIOL 213 and 60 credits to enroll in this course)</td>
<td></td>
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<tr>
<td>BIOL 431 (4) Advanced Human Anatomy &amp; Physiology II (BIOL 430 must be taken before BIOL 431)</td>
<td></td>
</tr>
<tr>
<td>BIOL 452/453 (3/1) Immunology/Lab (Students must complete BIOL 213, 305/306 and 311 to enroll in this course)</td>
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</table>

### MAJOR REQUIREMENTS: MEDICAL LABORATORY SCIENCE (31)

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLAB 200 (1) Introduction to Medical Laboratory Science (Fall only, C or better)</td>
<td></td>
</tr>
<tr>
<td>MLAB 300 (2) Science Writing (Spring only, Writing Intensive, C or better)</td>
<td></td>
</tr>
<tr>
<td>MLAB 401-406 (30) Clinical Training Courses**</td>
<td></td>
</tr>
</tbody>
</table>

### MAJOR SUPPORTING REQUIREMENTS (24-25)

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 211, 213 (4) General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 212, 214 (4) General Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 313, 315 (5) Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 314, 318 (5) Organic Chemistry II OR</td>
<td></td>
</tr>
<tr>
<td>BIOL 483 (4) General Biochemistry</td>
<td></td>
</tr>
<tr>
<td>One of the following: MATH 111, 113, or 114</td>
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</tr>
<tr>
<td>CDS130 (3) or IT103 (3)</td>
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</tr>
</tbody>
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### GENERAL ELECTIVES

Recommended: BIOL 465, 483, 484, 484, 485, CHEM 321, PHYS 243-246

### MINIMUM HOURS TO GRADUATE: 120

### UPPER DIVISION CREDITS (300+ level) (minimum 45)

### Minimum GPA: (overall 2.00, Major 2.0)

**NOTE:** Most clinical laboratory science training programs are highly competitive and are looking for students with a major/overall GPA of 2.5 or above. If you are not accepted into a clinical training program with 90 credits, you can change to a BS degree in Biology and must complete the requirements for that degree, including Fine Arts (GenEd), BIOL 308, BIOL 310, and PHYS 243-246 (or select another major). You may then obtain a second BS Degree in Medical Laboratory Science.

This planning form is intended for use in consultation with your academic advisor; The Undergraduate Catalog is the official reference for program information. For advising appointments go to www.biology.gmu.edu
**Literature**

ARAB 325 - Major Arab Writers/Stories
CHIN 310 - Survey of Chinese Literature
CHIN 311 - Modern Chinese Literature
CHIN 325 - Major Chinese Writings
CHIN 328 - Asian American Writers
CLAS 250 - Classical Mythology
CLAS 260 - Legacy of Greece and Rome
CLAS 340 - Greek and Roman Epic
CLAS 350 - Greek and Roman Tragedy
CLAS 360 - Greek and Roman Comedy
CLAS 380 - Greek and Roman Novels
ENGH 201 - Reading and Writing
ENGH 202 - Texts and Contexts
ENGH 203 - Western Literary Tradition
ENGH 204 - Western Literary Traditions
FREN 325 - Major French Writers
FREN 329 - Prob of West Civ French Lit
FRLN 330 - Topics in World Literature
GERM 325 - Major Writers
ITL 320 - Topics in Italian Film and Literature
ITL 325 - Major Italian Writers
JAP A 340 - Topics in Japanese Literature
PHIL 253 - Philosophy and Literature
RELI 335 - Religion and Literature
RUSS 325 - Major Russian Writers
RUSS 326 - Survey of Russian Literature
RUSS 372 - Survey of Russian Literature
SPAN 325 - Major Hispanic Writers

**Social and behavioral science**

AFAM 200 - Intro to African American Studies
ANTH 114 - Intro to Cultural Anthropology
ANTH 120 - Unearthing the Past:
ANTH 135 - Becoming Human: Evo, Cogn, Culture
ANTH 396 - Issues in Anthropology: Social Sciences
CONF 101 - Conflict and Our World
CONS 410 - Human Dimensions in Conservation
CRIM 100 - Intro to Criminal Justice
ECON 100 - Economics for the Citizen
ECON 110 - Intro to Economic Science
ECON 111 - Lab Methods in Economics (in sequence w/:
EDUC 372 - Human Dev, Learning, and Teaching
GGS 103 - Human Geography
GOVT 101 - Democratic Theory/ Practice
GOVT 103 - Intro to American Gov
GOVT 367 - Money, Markets and Economic Policy
HEAL 230 - Intro to Health Behavior
HIST 121 - Form of the American Rep
HIST 122 - Development of Modern America
LING 308 - General Linguistics
PSYCH 100 - Basic Concepts in Psychology
PSYCH 211 - Developmental Psychology
PSYCH 231 - Social Psychology
SOCIO 101 - Introductory Sociology
SOCIO 355 - Social Inequality
SOM 100 - Business in American Society
TOUR 311 - Women and Tourism
WMST 200 - Intro to Women and Gender Studies

**Global Understanding**

ANTH 302 - Peoples & Cultures of Latin America
ANTE 304 - Peoples and Cultures of the Pacific
ANTE 306 - Peoples and Cultures of Island Asia
ANTE 307 - Ancient Mesoamerica
ANTE 308 - Peoples & Cultures of the Middle East
ANTE 309 - Peoples Cultures of India
ANTE 311 - Peoples and Cultures of Mainland Southeast Asia
ANTE 312 - Political Anthropology
ANTE 313 - Myth, Magic, and Mind
ANTE 316 - Peoples and Cultures of the Caribbean
ANTE 331 - Refugees
ANTE 332 - Cross-cultural perspectives on globalization
ANTE 385 - Gender, Class, and Ethnicity in Latin America
ARTH 319 - Art & Archaeology of the Ancient Near East
ARTH 320 - Art of the Islamic World
ARTH 380 - African Art
ARTH 382 - Arts of India
ARTH 383 - Arts of Southeast Asia
ARTH 384 - Arts of China
ARTH 385 - Arts of Japan
ARTH 386 - The Silk Road
CEIE 100 - Environ Engineering
COMM 305 - Foundation of Intercultural Communication
COMM 456 - Comparative Mass Media
CRIM 405 - Law and Justice
DANC 118 - World Dance: Study Abroad to Cuba
DANC 318 - Global Perspectives
DANC 418 - Global Dance Intensive: Study Abroad to Cuba
ECON 360 - Econ of Developing Areas
ECON 361 - Econ Dev of Latin America
ECON 362 - African Econ Development
ECON 380 - Economics in Transition
ECON 390 - International Economics
ENGH 362 - Global Voices
ENGH 366 - idea of a World Literature
GCH 205 - International Health
GCH 101 - Major World Regions
GLOA 101 - Intro to Global Affairs
GOVT 132 - Intro to International Politics
GOVT 133 - Intro to Comparative Politics
HIST 130 - History of the Modern Global System
HIST 251 - Survey of East Asian History
HIST 252 - Survey of East Asian History
HIST 261 - Survey of African History
HIST 262 - Survey of African History
HIST 271 - Latin American History
HIST 272 - Latin American History
HIST 281 - Middle Eastern Civilization
HIST 282 - Survey of Middle Eastern Civilization
HIST 328 - Rise of Russia
HIST 329 - Modern Russia and Soviet Union
HIST 356 - Modern Japan
HIST 357 - Postwar Japan
HIST 358 - Post-1949 China
HIST 360 - History of South Africa
HIST 364 - Revolution and Radical Politics in Latin America
HIST 365 - Conquest/Colonization in Latin America
HIST 387 - Topics in Global History
HIST 460 - Modern Iran
HIST 462 - Women in Islamic Society
JAPA 310 - Japanese Culture
MSOM 305 - Managing a Global Economy
MUSI 103 - Musics of the World
MUSI 431 - Music History in Society
PHIL 243 - Global Environmental Ethics
PSYCH 379 - Applied Cross-Cultural Psych
RELI 310 - Human Religious Experience
RELI 211 - Religions of the West
RELI 212 - Religions of Asia
RELI 313 - Hinduism
RELI 315 - Buddhism
RELI 341 - Global Persp on Spirituality and Healing
RELI 374 - Islamic Thought
RUSS 354 - Post-Soviet Life
SPAN 466 - Latin American Civilization and Culture
SOCIO 120 - Globalization and Society
SOCIO 320 - Social Structure and Globalization
SOCIO 332 - Sociology of Urban Communities
SPAN 322 - Intro to Latin American Culture
SYST 100 - Engineering Sys in a Complex World
THTR 359 - World Stages
TOUR 210 - Global Understanding through Travel and Tourism
WMST 100 - Rep of Women

**Synthesis Requirement**

Take a synthesis course after completing at least 60 credits

ANTH 400 - Engaging the World:
ARTH 394 - The Museum
AVT 385 - EcoArt
AVT 497 - Senior Project
AVT 498 - Senior Design Project
BINF 354 - Foundations in Mathematical Biology
BIOL 301 - Biology and Society (Not for BIOL major credit)
BIS 490 - Senior Project
CEIE 490 - Senior Design Project
COMM 328 - Rhetoric of Social Movements and Political Controversy
COMM 362 - Argument and Public Policy
COMM 454 - Free Speech and Ethics
CONF 490 - Integration
CONS 490 - Integrated Conservation Strategies
CRRM 495 - Capstone in Criminology, Law and Society
CS 306 - Synthesis of Ethics and Law for the Computing Professional
DANC 490 - Senior Dance Seminar
ECE 447 - Single-Chip Microcomputers
ECE 492 - Senior Adv Design Project I
ECE 493 - Senior Adv Design Project II
ECON 309 - Economic Problems and Public Policies
EDCI 490 - Students Teaching in Education
ENG 305 - Dimensions of Writing and Literature
EVP 335 - People, Plants, and Culture
EVP 480 - Global Health and Well Being
FAVE 352 - Ethics of Film and Video
FRLN 355 - Multilingualism, Identity, and Power
GAME 490 - Senior Project
GCH 465 - Community Health Capstone
GEOL 420 - Earth Science and Policy
GIS 303 - Conservation of Resources Environment
GIS 304 - Populations Dimensions of Global Change
GOVT 490 - Synthesis Seminar
GOVT 491 - Honors Seminar
HAP 465 - Integration of Professional Skills and Issues
HIST 300 - Introduction to Historical Method
HIST 499 - Senior Seminar in History
IT 492 - Senior Design Project I
LAS 496 - Research Seminar in Latin American Studies
MATHEM 400 - History of Math
MU 490 - Musical Communication in Context
NCLC 308 - American Landscapes in Fiction, Film, and History
NURS 465 - Examination of Integration of Professional and Health care Issues
PHIL 309 - Bioethics
PHIL 343 - Issues in Environmental Ethics
PHIL 377 - Darwin: Biology and Beyond
PHIL 378 - Reason, Science, Faith in the Modern Age
PHIL 379 - Perspectives on Time
PHYS 346 - Quarks to Strings
PROV 342 - The George Mason Debates in Current Affairs
PSYC 405 - Mythology, Madness, and Murder
PSYC 406 - Psychology of Communication
PSYC 427 - Community Engagement for Social Change
RELI 498 - Comparative Study of Religions
RUSS 353 - Russian Civilization
SOCI 377 - Art and Society
SOCI 483 - The Sociology of Higher Education
SOCWM 323 - Human Behavior and the Life Course
SOM 486 - Capstone Course: Advanced Business Models
SPAN 388 - Introduction to Latin/la/Studies
SYST 495 - Senior Design Project II
THTR 496 - Tech in Production
UNIV 442 - Krasnow Seminar in Cognitive Science