

**GEORGE MASON UNIVERSITY
COLLEGE OF SCIENCE
B.S. DEGREE IN Medical Laboratory Science (Exploratory Hall-1200, 703-993-1050)
2014-2015 Catalog**

| Completed | MASON CORE REQUIREMENTS (24) | Course | Grade |
|-----------|--|--------|-------|
| | ENGH 101 (100) (3) | | |
| | COMM (3) (100 or 101) | | |
| N/A | Quantitative Reasoning (satisfied by completion of major requirements) | XXXX | XXXX |
| | Literature (3)* | | |
| | Western Civilization HIST 100 or HIST 125 (3) | | |
| | Social and Behavioral Science (3) | | |
| N/A | Natural Science Sequence (satisfied by completion of major requirements) | XXXX | XXXX |
| | Global Understanding (3) ^{2,4*} | | |
| N/A | Information Technology (satisfied by completion of major requirements) | XXXX | XXXX |
| | ENGH 302 (C or better) (3) | | |
| | Synthesis (3) | | |

*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)

| | | | |
|--|--|--|--|
| | BIOL 213 (4) Cell Biology | | |
| | BIOL 214 (4) Introduction to Biostatistics | | |
| | BIOL 305/306 (3/1) Microbiology/Lab (Prerequisite BIOL 213) | | |
| | BIOL 311 (4) General Genetics (Students must have completed 213, 214) | | |
| | BIOL 430 (4) Advanced Human Anatomy & Physiology I (Students must complete BIOL 213 and 60 credits to enroll in this course) | | |
| | BIOL 431 (4) Advanced Human Anatomy & Physiology II (BIOL 430 must be taken before BIOL 431) | | |
| | BIOL 452/453 (3/1) Immunology/Lab (Students must complete BIOL 213, 305/306 and 311 to enroll in this course) | | |

MAJOR REQUIREMENTS: MEDICAL LABORATORYSCIENCE (31)

| | | | |
|--|---|--|--|
| | MLAB 200 (1) Introduction to Medical Laboratory Science (Fall only, C or better) | | |
| | MLAB 300 (2) Science Writing (Spring only, Writing Intensive, C or better) | | |
| | MLAB 401-406 (30) Clinical Training Courses** | | |

MAJOR SUPPORTING REQUIREMENTS (24-25)

| | | | |
|--|---|--|--|
| | CHEM 211, 212 (8) General Chemistry | | |
| | CHEM 313, 315 (5) Organic Chemistry I | | |
| | CHEM 314, 318 (5) Organic Chemistry II | | |
| | One of the following MATH 111, 113, or 114 | | |
| | CDS130 (3) or IT103 (3) | | |

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 Writers
CHIN 328 - Asian American Women 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 -Texts
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
ITAL 320- Topics in Italian Film and Literature
ITAL 325 - Major Italian Writers
JAPA 340- Topics in Japanese Literature
PHIL 253 - Philosophy and Literature
RELI 235 - Religion and Literature
RUSS 325 - Major Russian Writers
RUSS 326 - Survey of Russian Literature
RUSS 327 - 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 Anthro
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 Criminal Justice
ECON 100 - Economics for the Citizen
ECON 103 - Microeconomic
ECON 104 - Macroeconomic
ECON 105 - Environ Econ for the Citizen
ECON 110 - Intro to Economic Science
ECON 111 - Lab Methods in Economics (in sequence w/
ECON 110)
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 306- General Linguistics
PSYC 100 - Basic Concepts in Psychology
PSYC 211 - Developmental Psychology
PSYC 231 - Social Psychology
SOC 101 - Introductory Sociology
SOC 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
ANTH 304 - Peoples and Cultures of the Pacific
ANTH 306 - Peoples and Cultures of Island Asia
ANTH 307 - Ancient Mesoamerica
ANTH 308 - Peoples & Cultures of the Middle East
ANTH 309 - Peoples Cultures of India
ANTH 311 - Peoples and Cultures of Mainland Southeast
Asia
ANTH 312 - Political Anthropology
ANTH 313 - Myth, Magic, and Mind
ANTH 316- Peoples and Cultures of the Caribbean
ANTH 331 - Refugees
ANTH 332 - Cross-cultural perspectives on globalization
ANTH 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 Comm
COMM 456 - Comparative Mass Media
CRIM 405 - Law and Justice
DANC 118 - World Dance
DANC 318 - Global Perspect: World Dance
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 - Economies in Transition
ECON 390 - International Economics
ENGH 362 - Global Voices
ENGH 366 - idea of a World Literature
GCH 205 - International Health

GGS 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
PSYC 379 - Applied Cross-Cultural Psych
RELI 100 - 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
SOC 120 - Globalization and Society
SOC 320 - Social Structure and Globalization
SOC 332 - Sociology of Urban Communities
SPAN 322 - Intro to Latin American Culture
SYST 100 - Engineering Sys in a Complex World
THR 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 326 - 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
CRIM 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
ENGH 305 - Dimensions of Writing and Literature
EVPP 335 - People, Plants, and Culture
EVPP 480- Sustainability in Action
FAVS 352 - Ethics of Film and Video
FRLN 385 - Multilingualism, Identity, and Power
GAME 490- Senior Project
GCH 465- Community Health Capstone
GEOL 420 - Earth Science and Policy
GGS 303 - Conservation of Resources Environment
GGS 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 499 - Research Seminar in Latin American Studies
MATH 400 - History of Math
MUSI 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 - Mystery, Madness, and Murder
PSYC 406 - Psychology of Communication
PSYC 427- Community Engagement for Social Change
RELI 490 - Comparative Study of Religions
RUSS 353 - Russian Civilization
SOCL 377 - Art and Society
SOC 483 - The Sociology of Higher Education
SOCW 323 - Human Behavior and the Life Course
SOM 498- Capstone Course: Advanced Business Models
SPAN 388 - Introduction to Latina/o Studies
SYST 495 - Senior Design Project II
THR 440 - Advanced Studies in Directing/Dramaturgy
THR 496 - Text in Production
UNIV 442- Krasnow Seminar in Cognitive Science