



Medical Lab Technician, RACC Associate in Applied Science (2019-2020 Catalog)

SEMESTER-BY-SEMESTER PROGRAM MAP FOR FULL-TIME STUDENTS

Courses are listed in preferred order of completion

Plans can be modified to fit student needs by adding more semesters

Choose your courses with your Advisor.

Developmental Education Courses (if required)					
<input type="checkbox"/>	ACLS050	Introduction to Academic Literacy	<input type="checkbox"/>	MATH020	Pre-Algebra
<input type="checkbox"/>	ENGL027	Writing Skills Workshop	<input type="checkbox"/>	MATH022	Elementary Algebra

Medical Lab Technician Program Requirements

The student must meet the following ELIGIBILITY CRITERIA to be considered for selective admission into the clinical portion of the Medical Laboratory Technician Program:

- The student must meet with the Reading Area Community College MLT Program Director to determine eligibility and to sign the Selective Admission Process agreement and the Essential Functions document.
- All coursework must be completed with a "C" grade or better.
- The student must achieve a combined math/science G.P.A. of 2.5.
- No course in the Medical Laboratory Technician Program curriculum, or which is a prerequisite for a course in the curriculum, can be repeated more than once. This requirement includes any courses taken at RACC or at another institution. It also includes courses from which the student may have withdrawn or in which the student earned less than a "C" grade.
- No more than 12 credits of the Medical Laboratory Technician Program curriculum may be repeated. This includes courses taken at RACC and at other institutions. It also includes withdrawals or courses in which the student earned less than a "C" grade.
- Course repeats or withdrawals that are older than ten years may be excluded from consideration in the admissions process at the discretion of the program director.

To apply for the clinical portion of the program, the student must submit the following by June 1st:

<input type="checkbox"/>	Personal letter of Intent requesting entry into the next clinical class
<input type="checkbox"/>	Two (2) letters of recommendation; at least one from a RACC or NCC faculty member
<input type="checkbox"/>	Meeting all Reading Area Community College requirements and deadlines pertaining to application for admission, payments, etc.

Location: B= BETH, M= MROE, S=SBTH, E= ESTN, D= DIST *subject to change

complete	Course #	Course Title	Credits	Gen Ed	Fall	Winter	Spring	Summer	Pre-requisites / Co-requisites
<input type="checkbox"/>	COLS101	College Success	1		B, M, D	----	B, M, D	D	
<input type="checkbox"/>	BIOS204	Human Anatomy and Physiology I	4	Science	B,M,D	----	B,M,D	B,M	PRE: One year of HS Biology or BIOS107 or 115
<input type="checkbox"/>	ENGL101	English I	3	Comm.	B, M, D, E	----	B, M, D, E	B, M, D	PRE: English Placement Policy
<input type="checkbox"/>	PSYC103 OR SOCA103	Introduction to Psychology Principles of Sociology	3	SSHB	B, M, D B, M, D	---- D	B, M, D B, M, D	B, M, D B, M, D	PRE: ENGL101 eligibilty
<input type="checkbox"/>	MATH150	Introductory Statistics	3	QL	B, M, D	----	B, M, D	B, M, D	PRE: MATH022 or Math Placement Policy
<input type="checkbox"/>	CHEM120	General Chemistry I	4	Science	B,M	----	B,M	M	PRE: MATH022 or Placement Policy, 1yr of hs chem or CHEM011, ENGL101 eligibility
Total Semester Credits:			18						

Semester 2	<input type="checkbox"/>	BIOS254	Human Anatomy and Physiology II	4	Science	B,M,D	----	B, M, D	B,M	PRE: BIOS204
	<input type="checkbox"/>	CMTH102 OR ENGL151T	Introduction to Communication OR English II (Technical Writing)	3	Comm.	B, M, D B	---- ----	B, M, D B	B, M, D ----	PRE: ENGL101
	<input type="checkbox"/>	PHIL201 OR PHIL202	Introduction to Philosophy OR Ethics & Moral Problems	3	AH	B, M, D B, M, D	---- ----	B, M, D B, M, D	B,D D	
	<input type="checkbox"/>	BIOS202 OR BIOS240	Microbiology for Allied Health or Microbiology	4	Science	B, M, D M	---- ----	B, M, D B	B, M ----	PRE: BIOS107, 115, 160, 204, or VECT101 PRE: BIOS 150 and CHEM 120
	<input type="checkbox"/>	CISC104	Microcomputer Applications	4		B, M, D	----	B, M, D	D	PRE: CISC100 or 101
	Total Semester Credits:			14						

(program continues on second page)

<input type="checkbox"/>	MLT 120	Basic Immunology	2					RACC	
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Semester 3	<input type="checkbox"/>	CHE 250	Organic Chemistry I (may be taken at NCC if meet requirements)	4		RACC or NCC			PRE: ENGL101 PRE/CO: CHEM220
	<input type="checkbox"/>	CHE 251	Chemistry of Biomolecules	1		RACC			
	<input type="checkbox"/>	HEA 220	Clinical Implications of Laboratory Tests	1		RACC			
			Total Semester Credits:	8					
Semester 4	<input type="checkbox"/>	MLT 110	Intro to the Clinical Lab (may be waived)	1		Fall at RACC			
	<input type="checkbox"/>	CHE 260	Theory of Chemical Instrumentation	2					
	<input type="checkbox"/>	MLT 211	Clinical Laboratory Techniques	4					
			Total Semester Credits:	7					
Semester 5	<input type="checkbox"/>	MLT 222	Clinical Urinalysis	1		Winter at RACC			
	<input type="checkbox"/>	MLT 233	Clinical Serology	1					
			Total Semester Credits:	2					
Semester 6	<input type="checkbox"/>	MLT 220	Clinical Hematology/COAG	5		Spring at RACC			
	<input type="checkbox"/>	MLT 221	Clinical Chemistry	4					
	<input type="checkbox"/>	MLT 230	Clinical Blood Banking & Immunology	4					
	<input type="checkbox"/>	MLT 231	Clinical Microbiology	4					
			Total Semester Credits:	17					
		Total Degree Credits	66						

Notes:

The Medical Laboratory Technician Program at Reading Area Community College is accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS) and abides by the standards and guidelines set forth by the agency.

Tuition & Fees: Students who are residents of sponsoring districts in Northampton, Monroe, Wayne, and Pike Counties shall be charged the same tuition and fees as residents of Berks County for courses specific to the Medical Laboratory Technician program that are not offered at NCC.

Please visit the RACC website for more information: <https://www.racc.edu/academics/medical-laboratory-technician>

Arts & Humanities (AH)
ARTA 100 Art and Visual Thinking
ARTA 101 Art History Survey
CMTH 110 Introduction to the Theatre
CMTH 111 Acting I
CMTH 115 Technical Theatre
CMTH 117 Stagecraft
CMTH 126 The Communication Arts
CMTH 189 Stage Voice and Movement
CMTH 190 Stage Production
CMTH 206 Directing
CMTH 211 Plays: Classical to Contemp. (G-WI)
CMTH 212 Acting II
CMTH 218 Theatre Portfolio
CMTH 220 Introduction to Film
DANC 101 Dance History
DANC 110 Ballet I
DANC 120 Modern Dance I
DANC 130 Jazz I
DANC 210 Ballet II
DANC 220 Modern Dance II
DANC 230 Jazz II
ENGL 201 British Literature I (G-WI)
ENGL 203 Shakespeare (G-WI)
ENGL 205 American Literature I (G-WI)
ENGL 211 Plays: Classical to Contemp. (G-WI)
ENGL 215 Multicultural Adolescent Lit (G-WI)
ENGL 250 Latin American Literature (G-WI)
ENGL 251 British Literature II (G-WI)
ENGL 253 Creative Writing
ENGL 255 American Literature II (G-WI)
ENGL 256 Modern Poetry (G-WI)
ENGL 257 20th Century Lit by Women (G-WI)
ENGL258 Fiction Writing
ENGL 260 Contemporary Literature (G-WI)
ENGL 264 Irish Literature (G-WI)
ENGL 265 African-American Literature (G-WI)
ENGL 267 Poetry Writing
HUMA 121 The American Work Experience (G-WI)
HUMA 140 Intro to Women & Gender Studies (G-WI)
HUMA 150 Nature of the Environment
HUMA210 Creativity and the Origin of Ideas
JOUR 101 Journalism and Society
Modern Language - All MDLA Courses
MUSC 101 Introduction to Music
PHIL 111 On Death and Dying (G-WI)
PHIL 121 World Religions
PHIL 201 Introduction to Philosophy
PHIL 202 Ethics and Moral Problems (G-WI)
PHIL 204 Asian Philosophies
PHIL 211 Ancient Philosophy
PHIL 215 Modern Philosophy
PHIL 225 What is Freedom?

Societies & Institutions Over Time (SIT)
CMTH 221 History of Broadcasting
GEOG 101 World Geography
GEOG 151 Geography of the U.S. and Canada (G-WI)
GLBL 130 Intro to Global Studies
GLBL 160 Field Experience & Acad Research in GS
GLBL 230 Global Studies Capstone
HIST 103 Ancient and Medieval History
HIST 113 American History I (G-WI)
HIST 121 The Black Experience (G-WI)
HIST 123 African Civilization
HIST 140 Modern Chinese History
HIST 153 Found of Mod Euro History, 1300-1815 (G-WI)
HIST 163 American History II
HIST 165 The American Experience of Warfare (G-WI)
HIST 166 Civil War and Reconstruction (G-WI)
HIST 168 History of the Middle East (G-WI)
HIST 173 Mod European History, 1815 to Present (G-WI)
HIST 210 History of Mod Science, 1859 to Present
HIST 211 History of Pennsylvania
INTS 201 Implementing Sustainable Energy System...
INTS 202 The Architecture of the City: Classic to Contemp.
POLS 101 Introduction to Political Science
POLS 105 American Constitutional Law (G-WI)
POLS 110 American National Government (G-WI)
POLS 150 Peace Studies & Conflict Resolution (Study Abroad)
POLS 170 Politics of Modern Turkey (Study Abroad)
POLS 202 International Relations
POLS 205 Women and Politics (G-WI)
POLS 251 State and Local Government (G-WI)
SOCA 102 Cultural Anthropology (G-WI)
SOCA 105 American Ethnicity
SOCA 160 Issues in Contemp.Genocide & Mass Violence

Science (SCI)
BIOS 104 Field Ecology
BIOS 105 Contemporary Biology (G-WI)
BIOS 107 Biology I
BIOS 110 In Your Genes: Intro to Mod Genetics
BIOS 115 Essentials of Biology
BIOS 126 Environmental Science
BIOS 150 Biology II
BIOS 160 Human Biology
BIOS 202 Microbiology for Allied Health
BIOS 204 Human Anatomy and Physiology I
BIOS 206 General Ecology
CHEM 105 Chemistry in Contemporary Society
CHEM 120 General Chemistry I
CHEM 135 Chemistry of Life
GEOG 150 Astronomy
GEOG 210 Weather and Climate
GEOL 201 Physical Geology
PHYS 101 Physics I

AA/AS electives (Non General Studies, Fine Arts)

Electives for A.A. & A.S. Degrees
Accounting – only ACCT 100, 101, 151, 201, 202, 251
Architecture – only ARCH 100
Art – only ARTA 101, 111, 161, 162, 291, 292, 293
Biological Science – all BIOS except 281, 282, 283
Business – only BUSA 101, 115, 152, 201, 202, 205, 232, 272
Chemistry – only CHEM 105, 120, 135, 220, 225, 251, 260, 291, 292, 293, 294
College Success: COLS101, 120
Communications – all CMTH except 180, 182, 185, 240, 252
Computer/Information Science – only CISC 101, 104, 115, 125, 225, 230, 270
Counseling – only COUN 100, 291, 292, 293
Dance – all DANC
Economics – ECON201, 251G
Education – all EDUC except 105
Engineering – only ENGG 100, 191, 192, 193, 194, 201, 251, 252
English – all ENGL
Geography – all GEOG
Global Studies - GLBL130, 160, 230
Health – only HEAL 150
History – all HIST
Hospitality – only HOSP 101
Humanities – all HUMA
Interdisciplinary Studies – INTS 101, 202, 250
Journalism – only JOUR 103
Mathematics – only MATH 120, 140, 145, 150, 160, 165, 175, 176, 180, 181, 191-194, 202, 210, 211
Modern Language – all MDLA
Music – all MUSC
Nutrition- NUTR105
Philosophy – all PHIL
Physical Education – any PHED courses up to a max of two credits
Physics – all PHYS
Political Science – all POLS
Publishing - 101, 102
Psychology – all PSYC except 221
Sociology/Anthropology – all SOCA
Special Education – SPED 160

PHYS151 Physics II
PHYS 152 Physical Science II
PHYS 215 Physics for Science and Engineering I
PHYS 225 Physics for Science and Engineering II

Electives for A.A. & A.S. Degrees (for Fine Arts, Gen. Ed)	Writing Intensive Gen Ed Courses (WI)	Diversity (D) Electives
<p>Accounting – only ACCT 100, 101, 151, 201, 202, 251 Architecture – only ARCH 100 Art – only ARTA 101, 111, 161, 162, 291, 292, 293 see note concerning other Art courses. Biological Science – all BIOS except 281, 282, 283 Business – only BUSA 101, 115, 152, 201, 202, 205, 232, 272</p> <p>Chemistry – only CHEM 105, 120, 135, 220, 225, 251, 260, 291, 292, 293, 294 College Success: COLS101, 120 Communications – all CMTH except 180, 182, 185, 240, 252 Computer/Information Science – only CISC 101, 104, 115, 125, 225, 230, 270 Counseling – only COUN 100, 291, 292, 293 Dance – all DANC Economics – ECON201, 251G Education – all EDUC except 105 Engineering – only ENGG 100, 191, 192, 193, 194, 201, 251, 252 English – all ENGL Geography – all GEOG Global Studies - GBL130, 160, 230 Health – only HEAL 150 History – all HIST Hospitality – only HOSP 101 Humanities – all HUMA Interdisciplinary Studies – INTS 101, 202, 250 Journalism – only JOUR 104 Mathematics – only MATH 120, 140, 145, 150, 160, 165, 175, 176, 180, 181, 191-194, 202, 210, 211 Modern Language – all MDLA Music – all MUSC Nutrition- NUTR105 Philosophy – all PHIL Physical Education – any PHED courses up to a max of two credits Physics – all PHYS Political Science – all POLS Publishing- 101, 102 Psychology – all PSYC except 221 Sociology/Anthropology – all SOCA Special Education – SPED 160 Note concerning Art courses: • ARTA 107, 124, and 158 are applicable only to the General Studies program, the Fine Art Program, and A.A.S. degree programs. • ARTA 161 is applicable only to the Fine Art Program and A.A.S. degrees. • ARTA 226 is applicable only to the General Studies program and A.A.S. degree programs.</p>	<p>BIOS105G Contemporary Biology CMTH 211G Plays: Classical to Cont ENGL 201G British Literature I ENGL 203G Shakespeare ENGL 205G American Literature I ENGL 211G Plays: Classical to Contemporary ENGL 215G Multicultural Adolescent Literature ENGL 250G Latin American Literature ENGL 251G British Literature II ENGL 255G American Literature II ENGL 256G Modern Poetry ENGL 257G 20th Century Lit by Women ENGL 260G Contemporary Literature ENGL 264G Irish Literature ENGL 265G African-American Literature GEOG 121G Environmental Sustainability GEOG 151G Geography of the US & Canada HIST 113G American History I HIST 121G The Black Experience HIST 153G Found of Mod Euro Hist (1300-1815) HIST 166G Civil War and Reconstruction HIST 168G History of the Middle East HIST 173G Mod Euro History, 1815 to Present HUMA 121G The American Work Experience HUMA 140G Intro to Women & Gender Studies HUMA250G Research Methods in the Social Sciences PHIL 111G On Death and Dying PHIL 202G Ethics and Moral Problems POLS 105G American Constitutional Law POLS 110G American National Government POLS 205G Women and Politics POLS 251G State and Local Government PSYC 103G Introduction to Psychology PSYC 258G Developmental Psychology SOCA 102G Cultural Anthropology SOCA 103G Principles of Sociology SOCA 125G Sociology of Families</p>	<p>BIOS 126 Environmental Science BIOS 210 Environmental Biology BUSA 115 Intro to International Business CJST 250 Contemporary Issues in Criminal Justice CMTH 126 The Communication Arts CMTH 211 Plays: Classical to Contemporary CMTH 215 Intercultural Communication DANC 101 Dance History ENGL 151L English II (Literature) ENGL 205 American Literature I ENGL 211 Plays: Classical to Contemporary ENGL 215 Multicultural Adolescent Literature ENGL 250 Latin American Literature ENGL 251 British Literature II ENGL 253 Creative Writing ENGL 255 American Literature II ENGL 256 Modern Poetry ENGL 257 20th Century Lit by Women ENGL 260 Contemporary Literature ENGL 264 Irish Literature ENGL 265 African-American Literature ENGL 267 Poetry Writing GEOG 101 World Geography GEOG 121 Environmental Sustainability GEOG 151 Geography of the U.S. and Canada GEOG 210 Weather and Climate GBL 130 Intro to Global Studies GBL 160 Field Experience & Acad Research in GS GBL 230 Global Studies Capstone HIST 113 American History I HIST 121 The Black Experience HIST 140 Modern Chinese History HIST 165 The American Experience of Warfare HIST 166 Civil War & Reconstruction HIST 168 History of the Middle East HIST 173 Mod Euro History: 1815-Present HUMA 121 American Work Experience HUMA 140 Intro to Women and Gender Studies HUMA 150 Nature of the Environment HUMA210 Creativity and The Origin of Ideas INTS 201 Implement Sustain Energy Sys in Dev Com Modern Language - All MDLA Courses PHIL111 On Death and Dying PHIL 121 World Religions PHIL 204 Asian Philosophies POLS 101 Introduction to Political Science POLS 105G American Constitutional Law POLS 150 Peace Studies & Conflict Resolution (Study Abroad) POLS 202 International Relations POLS205 Women & Politics POLS 251 State & Local Government PSYC 258 Developmental Psychology</p>
	<p style="text-align: center;">Scientific Study of Human Behavior (SSHB)</p> <p>ECON 201 Macroeconomics GEOG 121 Environmental Sustainability (G-WI) GEOG 140 Investigating Climate Change) GEOG 271 Intro to Geographic Info Systems HUMA 250 Research Methods in Social Sciences (G-WI) INTS 250 Study Abroad PSYC 103 Introduction to Psychology (G-WI) PSYC 205 Research Methods PSYC 230 Introduction to Health Psychology PSYC 235 Dev Child Psychopathology PSYC 245 Cognitive Psychology PSYC 255 Abnormal Psychology PSYC 258 Developmental Psychology (G-WI)</p>	

Electives for A.A. & A.S. Degrees
All courses except: OXX-level courses; EARL221, 222

PSYC 265 Psychology of Sex and Gender
SOCA 103 Principles of Sociology (G-WI)
SOCA 125 Sociology of Families (G-WI)
SOCA 210 Sociology of Gender

SOCA 102 Cultural Anthropology
SOCA103 Principles of Sociology
SOCA 105 American Ethnicity
SOCA 150 Deviance
SOCA160 Issues in Cont Genocide & Mass Violence
SOCA204 Social Problems

Quantitative Literacy (QL)
MATH 103 Applications of Mathematics (for A.A.S.)
MATH 120 Nature of Mathematics
MATH 150 Introductory Statistics
MATH 140 College Algebra
MATH 145 Trigonometry
MATH160 PreCalculus
MATH 165 Applied Calculus
MATH 175 Calculus with Review (part 1)
MATH 176 Calculus with Review (part 2)
MATH 180 Calculus I
MATH 181 Calculus II
MATH 202 Discrete Math
MATH 210 Calculus III
MATH 211 Differential Equations

for AA, AS

Quantitative Literacy (QL)
MATH 120 Nature of Mathematics
MATH 150 Introductory Statistics
MATH 140 College Algebra
MATH 145 Trigonometry
MATH160 PreCalculus
MATH 165 Applied Calculus
MATH 175 Calculus with Review (part 1)
MATH 176 Calculus with Review (part 2)
MATH 180 Calculus I
MATH 181 Calculus II
MATH 202 Discrete Math
MATH 210 Calculus III
MATH 211 Differential Equations