

OAKLAND UNIVERSITY
SCHOOL OF HEALTH SCIENCES
B.S. DEGREE BIOMEDICAL DIAGNOSTIC AND THERAPEUTIC SCIENCES
2017-2018 Major Checklist

Name: _____ Last 4 G#: _____ Date: _____

BIOMEDICAL DIAGNOSTICS AND THERAPEUTIC SCIENCES CORE		Transfer Course	Credit	Grade
BIO 1200 (111) Biology I			4	
BIO 2100 (205) Human Anatomy			4	
BIO 2101 (206) Human Anatomy Lab			1	
BIO 2600 (207) Human Physiology			4	
CHM 1440 (144) and 1470 (147) General Chemistry I with lab			4	1
CHM 1450 (145) and 1480 (148) General Chemistry II with lab			4	1
STA 2220 (225) Intro to Statistics or STA 226 Applied Probability & Statistics			4	
MLS 2010 (201) Careers in BDTS (Fall semester only)			1	
MLS 2050 (205) Contemporary Issues in Health Care Organizations			2	
MLS 2100 (210) Medical Terminology			1	
MLS 2260 (226) Introduction to Lab Theory and Techniques (not required for RAD Specialization)			2	
HS 4500 (450) Law, Values & Healthcare			4	
Elective Credits [WRT 1050 (150), or approved course through petition of exception]			4	
GENERAL EDUCATION REQUIREMENTS (28 CREDITS)				
WRITING FOUNDATIONS	WRT 1060 (160): Composition II		4	
WRITING INTENSIVE IN GENERAL EDUCATION	*Can be double counted with global perspective by taking MGT 1100 (110); not required for true transfer student			
WRITING INTENSIVE IN MAJOR	Satisfied by major: HS 4500 (450)			
FORMAL REASONING	Satisfied by major: STA 2220 (225) or STA 2226 (226)			
ARTS			4	
FOREIGN LANGUAGE & CULTURE			4	
GLOBAL PERSPECTIVE*			4	
LITERATURE			4	
NATURAL SCIENCE & TECHNOLOGY	Satisfied by major: BIO 1200 (111), CHM 1440+1447 (144+147), PHY 1010 (101) + 1100 (110)			
SOCIAL SCIENCE	PSY 1000 (100) suggested		4	
WESTERN CIVILIZATION			4	
DIVERSITY	**Can double count with Art, GP, Lit, SS, WC gen ed			
KNOWLEDGE APPLICATIONS	Can be satisfied by major: PHY 1020 (102) or PHY 1090 (109)			
CAPSTONE	Satisfied by major: HS 4500 (450)			

All students must complete 40 credits of general education, including at least one course (three or more credits) from the list of approved courses offered in each of the following 10 knowledge areas Writing, Formal Reasoning, Arts, Foreign Language and Culture, Global Perspective, Literature, Natural Science and Technology, Social Science, Western Civilization, and Knowledge Applications. Additional general education requirements include U.S. Diversity, Writing Intensive in General Education, Writing Intensive in the Major, and a Capstone. This information is also available in the Academic Catalog. Students are responsible for reading the Academic Catalog, which is available online at <http://catalog.oakland.edu>.

Biomedical Diagnostic & Therapeutic Sciences clinical internships require a minimum GPA of 2.80 or higher for all specializations. Student is required to review the catalog for course grade requirements.

**The US Diversity requirement must be satisfied by a course completed. Students can double count another gen ed course or complete one of the courses listed under US diversity in the catalog

PROFESSIONAL SPECIALTY COURSE REQUIREMENTS

MEDICAL LABORATORY SCIENCE			
Course	Credit	Grade	
PHY 1080 (108) Principles of Physics I	4		
PHY 1090 (109) Principles of Physics II	4		
CHM 2340 (234) Organic Chemistry I	4		
MLS 4240 (313) Immunohematology	4		
MLS 3140 (314) Hemostasis	3		
MLS 4270/4280 (327/328) Clin Chemistry (w/ lab)	4	1	
MLS 3350/3360 (335/336) Para/Myco/Viro (w/ lab)	3	1	
MLS 4000 (400) Medical Genetics	4		
MLS 4020 (402) Molecular Diagnostics	3		
MLS 4160 (416) Medical Hematology	4		
MLS 4170 (417) Med Hematology Lab	1		
MLS 4230 (423) Clinical Immunology	3		
MLS 4250 (425) Medical Biochemistry	4		
MLS 4300/4310 (430/431) Clin Microbio (w/ lab)	4	1	
MLS 4400 (440) Clinical Correlation	3		
Elective credits: MLS 4995 (490), 4929 (498); EHS 1150 (115), 4450 (445); PSY 2250 (225); HS 2500 (205), 4000 (401), 4100 (310); BIO 4620 (401), 4622 (409); MTH 1441 (141), 1554 (154); CHM 2350 (235); PHY 1100 (110), 1110 (111); (or approved course through petition of exception)	4		
TOTAL SPECIALIZATION CREDITS	59		

NUCLEAR MEDICINE TECHNOLOGY			
Course	Credit	Grade	
MTH 1441 (141) Pre-calculus	4		
PHY 1010/1100 (101/110) Gen Physics I (w/ lab)	4	1	
PHY 1020/1110 (102/111) Gen Physics II (w/ lab)	4	1	
COM 2000 (201) Public Speaking	4		
HS 4000 (401) Pathology	4		
MLS 3120 (312) Hematol/Cell Path	3		
MLS 4230 (423) Clinical Immunology	3		
MLS 4250 (425) Medical Biochemistry	4		
NMT 4950/4951/4952 (401/402/403) Clin Intern	32		
Elective credits: MLS 4000 (400), 4995 (490), 4929 (498); BIO 4620 (401); CHM 2340 (234), 2350 (235); EHS 1150 (115), 4450 (445); HS 2500 (205), 3000 (302), 4010 (431); PSY 2250 (225); MTH 1554 (154); WHP 3250 (325) (or approved course through petition of exception)	3		
TOTAL SPECIALIZATION CREDITS	67		

HISTOTECHNOLOGY			
Course	Credit	Grade	
BIO 3140/3141 (305/306) Histology (w/ lab)	4	1	
HS 4000 (401) Human Pathology	4		
MLS 3120 (312) Hematol/Cell Path	3		
MLS 3350/3360 (335/336) Parasit/Mycol/Virol (w/ lab)	3	1	
MLS 4000 (400) Medical Genetics	4		
MLS 4020 (402) Molecular Diagnosis	3		
MLS 4230 (423) Clinical Immunology	3		
MLS 4250 (425) Medical Biochemistry	4		
MLS 4300 (430) Clinical Microbiology	4		
HT 4010/4020/4030/4040 (401/402/403/404) Clinical Internship	24		
Elective credits: PSY 2250 (225); HS 2500 (205), 3000 (302), 4010 (431); MLS 4995 (490), 4929 (498); MTH 1441 (141), 1554 (154); PHY 1010 (101), 1020 (102), 1080 (108), 1090 (109), 1100 (110), 1110 (111); WHP 3250 (325); BIO 1300 (113), 4620 (401), 4622 (409); CHM 2340 (234), 2350 (235); EHS 1150 (115), 4450 (445); (or approved course through petition of exception)	9		
TOTAL SPECIALIZATION CREDITS	67		

PRE-PROFESSIONAL			
Course	Credit	Grade	
PHY 1010/1100 (101/110) General Physics I (w/ lab)	4	1	
PHY 1020/1110 (102/111) General Physics II (w/ lab)	4	1	
CHM 2340 (234) Organic Chemistry I	4		
CHM 2350 (235) Organic Chemistry II	4		
CHM 2370 (237) Organic Chemistry Lab	2		
MLS 3120 (312) Hematol/Cell Path or MLS 4160 (416) / 3140 (314) Med Hematology / Hemostasis (suggested)	3 or 7		
MLS 4000 (400) Medical Genetics	4		
MLS 4230 (423) Clinical Immunology	3		
MLS 4250 (425) Medical Biochemistry	4		
MLS 4300 (430) Clinical Microbiology	4		
MLS 4310 (431) Clinical Micro Lab or MLS 4320 (432) Medical Micro Lab	1		
Elective credits: MLS 4240 (313), 3140 (314), 4270 (327), 4280 (328), 3350 (335), 3360 (336), 4020 (402), 4400 (440), 4995 (490), 4929 (498); MTH 1441 (141), 1554 (154); PSY 2250 (225); HS 2500 (205), 3000 (302), 4000 (401), 4100 (310); EHS 1150 (115), 4450 (445); EXS 3010 (304), 3015 (306); WHP 3250 (325); BIO 3140 (305), 3141 (306), 3620 (321), 4620 (401), 4622 (409); SW 3101 (310), 3201 (311); (or approved course through petition of exception)	20 or 16		
Suggested elective credits: MLS 3140 (314), HS 4000 (401)			
TOTAL CONC CREDITS	59		

RADIOLOGIC TECHNOLOGY			
Course	Credit	Grade	
PHY 1080 (108) Principles of Physics I	4		
PHY 1090 (109) Principles of Physics II	4		
RAD 3110 (311) Method of Patient Care I	2		
RAD 3310 (331) Radiologic Physics	3		
RAD 3330 (333) Prin. of Rad. Exposure I	3		
RAD 3340 (334) Prin. of Rad. Exposure II	2		
RAD 3410 (341) Radiographic Proc I	4		
RAD 3420 (342) Radiographic Proc II	2		
RAD 3430 (343) Radiographic Proc III	2		
RAD 3450 (345) Rad. Image Evaluation I	2		
RAD 4070 (407) Rad Bio and Protection	2		
RAD 4110 (411) Method of Pat Care II	1		
RAD 4310 (431) Radiologic Physics II	3		
RAD 4330 (433) Prin. of Rad. Expos III	2		
RAD 4340 (434) Prin. of Rad. Expos IV	3		
RAD 4410 (441) Radiographic Proc IV	3		
RAD 4420 (442) Radiographic Proc V	3		
RAD 4440 Medical Imaging Practices	4		
RAD 4970 (450) Senior Seminar	2		
RAD 4960-4965 (451-456) Clin Practicum	18		
TOTAL SPECIALIZATION CREDITS	69		

Student must provide a copy of the hospital program acceptance letter to advising office for specialization to be added for all areas except MLS. This will affect registration.

All students applying to **HTL**, **NMT**, or **RAD** programs must complete a pre-internship audit with their SHS academic adviser while applying to these programs.

Students pursuing specializations in HTL, NMT or RAD must complete a minimum of 136 credits.

MLS and Pre-Professional require a minimum of 128 credits.

