

EQUIVALENCY SHEET FOR UM-FLINT PHYSICIAN ASSISTANT (PA) PROGRAM

**This guide is not a comprehensive list of all equivalent courses for the UM-Flint PA program. Other courses may fulfill these prerequisite courses. Please refer to University of Michigan-Flint Transfer Credit website: <http://transfer.umflint.edu/> for a more comprehensive list of courses that may fulfill these prerequisites.

It is the responsibility of the student to keep current with any changes to the prerequisites and equivalent courses at other schools that may fulfill these prerequisites.**

Prerequisite Courses-

1. A minimum prerequisite GPA average of 3.0 is required.
2. All prerequisite coursework must be completed with a grade of C (2.0) or higher learning from an accredited institution of higher learning BEFORE submitting to CAPSA.
3. Graduate level courses will not be considered as fulfilling prerequisite courses.
4. Pass/Fail Courses will not be considered as a fulfilling prerequisite courses
5. Courses for which a credit was awarded by examination and/or advanced placement credit are not applied toward any of the prerequisites course requirements.
6. Science prerequisites courses (human anatomy, physiology, chemistry and microbiology) must be taken within seven years from the date of the application submission. (If any science courses were completed greater than seven years prior to the time of application submission, a seven year Prerequisites Science Course Waiver Request must be obtained prior to December 1. Waiver requests should be emailed to Flint.PADept@umich.edu and contain the following information:
 - 6a. The name, course number, institution, and name of the course that needs to be waived
 - 6b. Detailed explanation of why your continuous employment experience demonstrated mastery of the prerequisite course content.
7. All prerequisite coursework must be completed at a U.S. accredited university or college
8. Online and in-person course work is acceptable

REQUIRED Prerequisite Courses-

1. **Human Anatomy** - One Course
2. **Human Physiology** - Two Courses
At least one course must be 300/3000 level or higher
3. **Chemistry** - Two Courses
One course must be either organic or biochemistry
4. **Microbiology** (must include lab) - One Course
5. **Developmental Psychology** - One Course
6. **Statistics** - One Course
7. **Medical Terminology** - One Course

Michigan Colleges and Universities

Required Prerequisite Course	U-M Flint	Alma College	Baker College	Central Michigan University	Davenport University	Delta College
ANATOMY	BIO 167 AND BIO 168 BIO 433		SCI 101C + 102C	HSC 211 HSC 214	BIO 120 BIO 221 + 222	BIO 152 + 153 BIO 240
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414	IPH 327	HSC 275 SCI 211 SCI 371	HSC 215 HSC 411 BIO 315 BIO 315 BIO 324 HSC 308 BIO 392	BIO 312 BIO 336 BIO 354	BIO 241 BIO 280 LWT 251
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350		SCI 246 SCI 247 SCI 248 SCI 231 SCI 331	CHM 120 CHM 131 CHM 161 CHM 342 CHM 345 CHM 330/331 CHM 350 CHM 421	CHEM 160 CHEM 161 CHEM 250 CHEM 225 CHEM 310	CHM 101 CHM 111 CHM 210 CHM 221
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406		SCI 220A	BIO 208	BIOL 221+211L	BIO 203
DEVELOPMENTAL PSYCHOLOGY	PSY 313		PSY 221	PSY 220	NO EQUIVALENT COURSE	PSY 227W
STATISTICS	MTH 272 PSY 322 BIO 301		HIT 201 MTH 312 MTH 401	BIO 500 PSY 211 STA 282	STAT 219 STAT 220	MTH 208 MTH 209
MEDICAL TERMINOLOGY	MTP 320		MED 103	HSC 201	HLTH 110	HSC 105

Michigan Colleges and Universities

Required Prerequisite Course	U-M Flint	Detroit-Mercy	Eastern Michigan University	Ferris State University	Grand Valley State University	Grand Rapids Community College
ANATOMY	BIO 167 AND BIO 168 BIO 433	BIO 2300 + 2320 BIO 3650	BIO 251 + 252 SPMD 201 PHED 200	BIOL 205 BIOL 321 + 322	BMS 208 BMS 250 + 251	BL 117 BL 121 + 122
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414	BIO 2700 BIO 4630 BIO 4630 HIM 3100	NURS 260 PHED 205 SPMD 202 NSCI 401 BIO 301 BIO 326 SPMD 300	BIOL 206 BIOL 300 BIOL 301 BIOL 373	BMS 290 BMS 310 BIO 355 MOV 304 BIO 375-376	BI 232 BI 240
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350	CHM 1070 CHM 1080 CHM 2270 CHM 4700	CHEM 117 CHEM 121 CHM 123 CHEM 120 CHEM 270 CHEM 351 CHEM 371 CHEM 372	CHEM 114 CHEM 121 CHEM 124 CHEM 321 CHEM 364	CHM 109 CHM 115 CHM 230 CHM 231 CHM 232	CHM 120 CHM 130 CHM 210 CHM 240 CHM 250
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406	BIO 2410+2410 BIO 4210+4220	BIO 328 BIO 425	BIOL 108 BIO 286	BMS 212+213	BL 127 BIO 240
DEVELOPMENTAL PSYCHOLOGY	PSY 313	PYC 2500	EDPS 325	PSYC 226	PSY 364	PSY 232
STATISTICS	MTH 272 PSY 322 BIO 301	BIO 2900 MTH 2140 STA 2250	MATH 170 MATH 360 SOCL 250 PSY 205	COHP 350 MATH 251 STOM 260	STA 215 STA 310	MA 215 PY 281
MEDICAL TERMINOLOGY	MTP 320	HIM 2050	AHPR 200	COHP 100 MRIS 103	AHS 100	GH 110

Michigan Colleges and Universities

Required Prerequisite Course	U-M Flint	Henry Ford College	Jackson College	Kalamazoo Valley Community College	Kellogg Community College	Lansing Community College
ANATOMY	BIO 167 AND BIO 168 BIO 433	BIO 134 BIO 233 + 234	BIO 253 + 254	BIO 110	BIOL 105 BIOL 201	BIOL 145 BIOL 20 BIOL 201
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414	NSG 285	NO EQUIVALENT COURSE	BIO 201 BIO 210 BIO 210	BIOL 202	BIOL 202 BIO 270 BIOL 270
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350	CHEM 131 CHEM 141 CHEM 132 CHEM 241	CEM 131 CEM 141 CEM 132 CEM 241	CHM 120 CHM 130 CHM 150 CHM 220	CHEM 100 CHEM 110 CHEM 201 CHEM210	CHEM 151 CHEM 152 CHEM 130 CHEM 182 CHEM 251
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406	BIO 134 BIO 251	BIO 220	BIO 130	BIO 205	BIOL 203+204
DEVELOPMENTAL PSYCHOLOGY	PSY 313	PSY 253	PSY 252	PSY 160	PSYC 220	PSYC 205
STATISTICS	MTH 272 PSY 322 BIO 301	MATH 141	MAT 133 PSY 144	MATH 216 MATH 220	BUAD 113 MATH 130	STAT 170 STAT 215
MEDICAL TERMINOLOGY	MTP 320	AH 100	MOA 120	HCR 116	OIT 227	CHSE 120

Michigan Colleges and Universities

Required Prerequisite Course	U-M Flint	Macomb Community College	Madonna University	Muskegon Community College	Michigan State University	Monroe County Community College
ANATOMY	BIO 167 AND BIO 168 BIO 433	BIOL 2710	BIO 2430 + 2440	BIOL 105 BIOL 106	PSL 310 KIN 216 ANTR350	BIOL 157+158 BIOL 257+258
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414	NO EQUIVALENT COURSE	BIO 2210 BIO 3010 BIO 3280 NIO 3710	BIOL 105 BIOL 106	PSL 250 KIN 310 NUR 300 PSL 310 ANTR 350 PSL 310 BIO 431 BLD 434	BIOL 259 BIOL 264
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350	CHEM 105 CHEM 1170 CHEM 1060 CHEM 2260	CHM 1010 CHM 1110 CHM 1610 CHM 2210 CHM 3610	CHEM 101 CHEM 100LE CHEM 201E	CEM 141 CEM 151 LB171 BMB 200 CEM 143 CEM 251	CHEM 150 CHEM 151 CHEM 160 CHEM 251
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406	BIOL 2400 BIOL 2730	BIO 2260	BIOL 107LEC + BIOL 107A	MMG 301+302	BIOL 260
DEVELOPMENTAL PSYCHOLOGY	PSY 313	PSYC 2450	PSY 2450	PSYC 207	HDFS 225	PSYCH 254
STATISTICS	MTH 272 PSY 322 BIO 301	MATH 1340 PSYC 2170	MATH 2350		PSY 295 STT 200 STT 201 STT 315	MATH 162
MEDICAL TERMINOLOGY	MTP 320	HHSC 1700	MTE 1010	AH 101	LB 270	HLTSC 110

Michigan Colleges and Universities

Required Prerequisite Course	U-M Flint	Mott Community College	Northern Michigan University	Oakland Community College	Oakland University	Saginaw Valley State University
ANATOMY	BIO 167 AND BIO 168 BIO 433	BIO 151 + BIOL 152	BI 207	BIO 2630 + 2640 BIO 2870	BIO 121 or BIO 2006 BIO 205 or BIO 2100	BIOL 231 BIOL 232 + 233
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414	BIO 152 BIOL 227	BI 312 BI 208	BIO 2560 BIO 2660	BIO 207 or BIO 2600 NUR 227 AHS 401 EXS 304 BIO 321 BIO 3400 HS 401	BIOL 360 HS 430 KINE 376
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350	CHEM 111 CHEM 131		CHE 1000 CHE 1510 CHE 1320 CHE 2610	CHM 104 CHM 144 CHM 1450 BIO 325 CHM 201 CHM 234 MLS 425	CHEM 101 CHEM 111 CHEM 230 CHEM 240
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406	BIOL 156+156L		BIO 2710	BIO 319+320 MLS 430/432 BIO 3520/3521	BIOL 237
DEVELOPMENTAL PSYCHOLOGY	PSY 313	PSYC 291		PSY 2740	PSY 225	PSYC 210
STATISTICS	MTH 272 PSY 322 BIO 301			MAT 1580	PSY 251 STA 225	MATH 132 PSYC 299
MEDICAL TERMINOLOGY	MTP 320	AHLT 102 AHLT 140 BHSR 115		MDA 1103	MLS 210 CDS 2100	HS 230 HS 220

Michigan Colleges and Universities

Required Prerequisite Course	U-M Flint	Schoolcraft College	St. Clair County Community College	University of California, Berkeley	University of Michigan-Ann Arbor	University of Michigan-Dearborn
ANATOMY	BIO 167 AND BIO 168 BIO 433	BIOL 236 BIOL 237 + 238	BIO 160 BIO 271 + 272		MEDADM 403 PHYSED 310 NURS 210	BIOL 102 + 105
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414	NO EQUIVALENT COURSE	BIO 280	MCB 133L	BIO 305 PHYSIOL 201 MSV 340 PHYSIOL 502	BIOL 301 BIOL 357
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350	CHEM 111 CHEM 117 CHEM 120 CHEM 213	CHEM 111 CHEM 117 CHEM 102 CHEM 215		CHEM 130 CHEM 210 CHEM 351 MCBM 310	CHEM 124 CHEM 134 BCHM 370 CHEM 225 CHEM 325
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406	BIOL 243	BIO 206		BIOL 207 MICROBIOL 301+350	BIOL 385+385L MICR 385+385L
DEVELOPMENTAL PSYCHOLOGY	PSY 313	PSYCH 229	PSY 220		PSYCH 250	PSYC 300
STATISTICS	MTH 272 PSY 322 BIO 301	HIT 210 MATH 122	MATH 120	Data 8	STATS 250 MOVESCI 250	PSYC 301 STAT 381 STAT 263
MEDICAL TERMINOLOGY	MTP 320	HIT 100 HIT 204	HE 102 OA 280A OAH 303 OAH 401		CLCIV 217	NO EQUIVALENT COURSE

Michigan Colleges and Universities

Required Prerequisite Course	U-M Flint	University of Windsor	Washtenaw Community College	Wayne County Community College	Wayne State University	Western Michigan University
ANATOMY	BIO 167 AND BIO 168 BIO 433	55-175+177 55-202 95-265	BIO 109 BIO 111	BIO 240 + 250	BIO 2870	BIOS 2110
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414	55-201 55-205 95-205 55-342 55-353 95-360	BIO 208 BIO 104 BIO 212 BIO 215	BIO 252	BIO 2600 NUR 2030 BIO 3070 BIO 3200 BIO 4120 KIN 6300	BIO 2400 BIOS 2500 HPHE 2980 BIO 3500
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350	59-110 59-140 29-191 59-230 59-261	CEM 105 CEM 111 CEM 140 CEM 211	CHM 105 CHM 136 CHM 155 CHM 250	CHM 1020 CHM 1220 CHM 1030 CHM 1240 BIO 3100	CHEM 1100 CHEM 1510 CHEM 1530 CHEM 3550 CHEM 3750
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406	55-238	BIO 237	BIO 295	BIO 2200	BIOS 3120
DEVELOPMENTAL PSYCHOLOGY	PSY 313	NO EQUIVALENT COURSE	PSY 206	PSY 200	PSY 2400	HSV 2250
STATISTICS	MTH 272 PSY 322 BIO 301	46-313 65-205 65-251	BMG 265 MTH 160	BUS 221 MAT 131	STA 1020 PH 3200 PSY 3010 PSY 2030 MAT 2210 BA 2300 PS 3600	STAT 1600 STAT 2600 STAT 3640 STAT 3660 HPHE 3150
MEDICAL TERMINOLOGY	MTP 320	NO EQUIVALENT COURSE	HSC 101 HSC 124	ALH 110	CLS 3330	MSDC 2010

Colleges and Universities Outside of Michigan

Required Prerequisite Course	U-M Flint	American Public University	Barton Community College	Bethel University	Boise State University	Cedar Valley Community College
ANATOMY	BIO 167 AND BIO 168 BIO 433	SPHE 314		BIO 309 & 309L BIO 310 & 301L BIO 309 & 309L BIO 310 & 310L	BIO 227	
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414				BIO 228	
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350		CHEM 1806			
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406					
DEVELOPMENTAL PSYCHOLOGY	PSY 313	BIOL 202				PSYC 2314
STATISTICS	MTH 272 PSY 322 BIO 301					
MEDICAL TERMINOLOGY	MTP 321					

Colleges and Universities Outside of Michigan

Required Prerequisite Course	U-M Flint	City Colleges of Chicago (Malcolm X)	Colorado State University	Doane University	Dominican University	Duke University
ANATOMY	BIO 167 AND BIO 168 BIO 433	BIO 226 BIO 227 BIO226+227		BIO 356		Evanth 333L CBI 503
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414		BMS 300			EVANTH 330L
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350			CHEM125 CHEM 330		
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406					
DEVELOPMENTAL PSYCHOLOGY	PSY 313					
STATISTICS	MTH 272 PSY 322 BIO 301					
MEDICAL TERMINOLOGY	MTP 321					

Colleges and Universities Outside of Michigan

Required Prerequisite Course	U-M Flint	Georgia State University	Florida Atlantic University	The Indiana Univeristy	Florida Southwestern College	Ohio State University
ANATOMY	BIO 167 AND BIO 168 BIO 433					NEUROSCIENCE 3050
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414		APK 4110			
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350				CHM 2025	
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406					
DEVELOPMENTAL PSYCHOLOGY	PSY 313			PSY-B310		
STATISTICS	MTH 272 PSY 322 BIO 301					
MEDICAL TERMINOLOGY	MTP 321					

Colleges and Universities Outside of Michigan

Required Prerequisite Course	U-M Flint	Olivet College	Palomar College	Penn State University	University of Arizona	University of California, Berkeley
ANATOMY	BIO 167 AND BIO 168 BIO 433			KINES 350	MIC 419	
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414					MCB 133L
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350	CHEM 211	CHEM 104			
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406	BIO 207				
DEVELOPMENTAL PSYCHOLOGY	PSY 313					
STATISTICS	MTH 272 PSY 322 BIO 301					
MEDICAL TERMINOLOGY	MTP 321					Data 8

Colleges and Universities Outside of Michigan

Required Prerequisite Course	U-M Flint	University of Colorado	University of Illinois	University of South Florida	University of New England	University of Phoenix
ANATOMY	BIO 167 AND BIO 168 BIO 433			BSC 2085.050 BSC 2086.050	PSHL 1010	
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414		MCB 317 MCB 471		BIOL 1040	BIO 410
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350	CHM 150 OR 151			CHEM 1005 CHEM 1010	
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406					
DEVELOPMENTAL PSYCHOLOGY	PSY 313			DEP 2004		
STATISTICS	MTH 272 PSY 322 BIO 301					
MEDICAL TERMINOLOGY	MTP 321		CLCV 102			

Colleges and Universities Outside of Michigan

Required Prerequisite Course	U-M Flint	University of Texas At Arlington	University of Texas At Austin	University of Virginia	Valencia College	University of Wisconsin	
ANATOMY	BIO 167 AND BIO 168 BIO 433	Immunobiology 3312-01	BIO 325	BIOL 4310			
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414						
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350					CHE 203	
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406						
DEVELOPMENTAL PSYCHOLOGY	PSY 313				DEEP 2004		
STATISTICS	MTH 272 PSY 322 BIO 301						
MEDICAL TERMINOLOGY	MTP 321						

Colleges and Universities Outside of Michigan

Required Prerequisite Course	International	
	U-M Flint	University of Windsor
ANATOMY	BIO 167 AND BIO 168 BIO 433	55-175+177 55-202 95-265
PHYSIOLOGY <i>[two courses: one must be 300/3000 level OR above]</i>	BIO 167 AND BIO 168 equivalent to a lower level Physiology course PLUS ONE Upper Level Phys: BIO 326 BIO 328 PTP 414	55-201 55-205 95-205 55-342 55-353 95-360
CHEMISTRY <i>[two courses: one must be organic or biochemistry]</i>	CHM 140 CHM 150 PLUS ONE OF THE FOLLOWING: CHEM 252 CHM 330 CHM 350	59-110 59-140 29-191 59-230 59-261
MICROBIOLOGY W/ LAB	BIO 135 BIO 405+406	55-238
DEVELOPMENTAL PSYCHOLOGY	PSY 313	NO EQUIVALENT COURSE
STATISTICS	MTH 272 PSY 322 BIO 301	46-313 65-205 65-251
MEDICAL TERMINOLOGY	MTP 321	NO EQUIVALENT COURSE