

DUAL DEGREE - INTERDISCIPLINARY PHD IN BIOMEDICAL SCIENCES

PROGRAM REQUIREMENTS

The dual DO/PhD or DPM/PhD degree program follows a 2-3-2 distribution; students will follow the DO or DPM curriculum in the first two years, then the PhD curriculum in the next three years, and return to the DO or DPM curriculum in the final two years. As such, students will fulfill their financial obligation to the DO or DPM component during the first and last two years of the dual degree program, while receiving a stipend and tuition waiving during the three years of their PhD studies.

PROGRAM APPLICATION PROCESS

- Interested students may apply for direct admission to the dual DO/PhD or DPM/PhD program prior to matriculating at DMU.
- Students currently enrolled in only the DO or DPM programs may apply to the PhD program during the fall term in the second year of their clinical program. Earlier application will require review and approval by the program director.
- If accepted, students will begin the PhD degree component in the summer following their second year.
- Students who are accepted for direct admission into the dual program are expected to complete 2-3 credits of elective research courses (DO 2100 or POD 2048) during the first two years in the DO or DPM curriculum. The elective research coursework will apply toward the PhD elective course requirement.
- Dual enrollees will have completed 16-19 credit hours of the PhD curriculum that are shared with the DO or DPM curriculum before starting the PhD component.

TECHNICAL STANDARDS FOR ADMISSION, ACADEMIC PROMOTION AND GRADUATION

Students must meet technical standards for both the [Doctor of Osteopathic Medicine](#) program or [Doctor of Podiatric Medicine](#) program and the [Interdisciplinary PhD in Biomedical Sciences](#) program.

Dual DO/PhD REQUIRED COURSES

Course	Title	Credit Hours
Year 1		
DO Year I Curriculum		
ANAT 1101A	Anatomy I	5
ANAT 1102B	Anatomy II	4
DO 1110A	Professional Certs I	0.5
DO 1110B	Prof Certs & Hlth Team Env I	1
DO 1120	Med Informatics & Translational Learning	2
DO 1130A	Physn Profess: Ident/Interact/Ethics A	3.5
DO 1130B	Physn Profess: Ident/Interact/Ethics B	1
FDSC 1101	Foundational Sciences I	8
FDSC 1102	Foundational Sciences II	6.5

FDSC 1103	Foundational Sciences III	7.5
OCM 1101A		2.5
OCM 1101B		2
OCM 1107A		1.5
OCM 1107B	Clinical Medicine I B	2
Credit Hours		47

Year 2

DO Year II Curriculum

BHVMD 2120	Adv Topics in Med Ethics & Public Policy	2
DO 2104	Clin Sci I: Pharm, Hem, Cv, Res	9
DO 2105	Clin Sci II: Neuro/Psych, Uro-genital	9
DO 2106	Clin Sci III: Endo, GI, PMN	6.5
DO 2107	Clin Sci IV: ID, Spec Med, Ger	5.5
DO 2110A	Prof Certs & Hlth Team Env II	1
DO 2110B	Professional Certs II	1
OCM 2101A		2
OCM 2101B		2
OCM 2125A		2.5
OCM 2125B		2
Credit Hours		42.5

Year 3

PhD Curriculum Year I

PHDBS 2B01	Molecule to Medicine I	3
PHDBS 2B02	Molecule to Medicine II	3
MBS 1B06	Intro to Biostatistics and Data Analysis	2
MBS 1B12	Frontiers in Biomedical Research	2.5
MBS 1B03	Responsible Conduct Biomedical Research	1
MBS 1B14	Research Compliance & Laboratory Safety	0.5
MBS 2B05	Scientific Communications	1.5
PHDBS 2B12	Dissertation Proposal	2
PHDBS 2B31	Grant Writing Skills I	1
PHDBS 2B32	Grant Writing Skills II	2
PHDBS 2B21	Sem in Biomed Sci I: Presentation Skills	1
PHDBS 1B01	Research	7
Credit Hours		26.5

Year 4

PhD Year II Curriculum

PHDBS 2B22	Sem in Biomed Sci II: Presentat Design	1
PHDBS 2B40	Data Analysis for Clinical Research	2
PHDBS 3B01	Critical Analysis of Biomedical Research (Students complete 3-4 credits total of PHDBS 3B01)	1
PHDBS 1B01	Research	18
Credit Hours		22

Year 5

PhD Year III Curriculum

PHDBS 3B01	Critical Analysis of Biomedical Research (Students complete 3-4 credits total of PHDBS 3B01)	2
PHDBS 2B23	Teaching the Biomedical Sciences	1
PHDBS 1B01	Research	15
PHDBS 4B10	Dissertation I	1
PHDBS 4B20	Dissertation II	1

PHDBS 4B30	Dissertation III	2
Credit Hours		22
Year 6		
DO Year III Curriculum		
DO 3144A	Clinical Rotations Year III A	20
DO 3144B	Clinical Rotations Year III B	20
DO 3151	Introduction to Health Systems & Policy	1
OCM 3101A		1
OCM 3101B		1
DO 3161	NAMI Provider Educator Program	0.5
Credit Hours		43.5
Year 7		
DO Year IV Curriculum		
DO 4160	Clinical Comprehensive Assessm	1
DO 4144A	Clinical Rotations Year IV A	8
DO 4144B	Clinical Rotations Year IV B	16
DO 4144C	Clinical Rotations Year IV C	16
OCM 4101		0.5
Credit Hours		41.5
Total Credit Hours		245

DUAL DPM/PHD REQUIRED COURSES

Code	Title	Credit Hours
Year 1		
DPM Year I Curriculum		
ANAT 1201A	Anatomy I	5
ANAT 1201B	Anatomy II	4
FDSC 1201	Foundational Sciences I	8
FDSC 1202	Foundational Sciences II	6.5
FDSC 1203	Foundational Sciences III	7.5
OCM 1207A		1.5
OCM 1207B	Clinical Medicine I B	2
POD 1223	Principles & Practices of Podiatric Med	2.5
Credit Hours 37		
Year 2		
DPM Year II Curriculum		
ANAT 2211	Lower Limb Anatomy	3.5
OCM 2122		1.5
PHYPM 2115	Medical Pharmacology	5.5
POD 2204	Cultural Competency in Medicine	1
POD 2207	Clinical Podiatric Medicine and Diagnost	4
POD 2210	Fundamentals of Foot Function	3
POD 2220	Clin Pod Biomechanics / Surg	6.5
POD 2237	Podiatric Clinical Rotations	4
SYST 2201	Clinical System I: Cardio/Pulmonary	4
SYST 2206	Clinical System II: Endo/Hematology	3.5
SYST 2241	Clinical System IV: Neuro/Beh Med	3
Credit Hours 45		
Year 3		
PhD Year I Curriculum		
PHDBS 2B01	Molecule to Medicine I	3

PHDBS 2B02	Molecule to Medicine II	3
MBS 1B06	Intro to Biostatistics and Data Analysis	2
MBS 1B12	Frontiers in Biomedical Research	2.5
MBS 1B03	Responsible Conduct Biomedical Research	1
MBS 1B14	Research Compliance & Laboratory Safety	0.5
MBS 2B05	Scientific Communications	1.5
PHDBS 2B12	Dissertation Proposal	2
PHDBS 2B31	Grant Writing Skills I	1
PHDBS 2B32	Grant Writing Skills II	2
PHDBS 2B21	Sem in Biomed Sci I: Presentation Skills	1
PHDBS 1B01	Research	1-7
Credit Hours 26.5		
Year 4		
PhD Year II Curriculum		
PHDBS 2B22	Sem in Biomed Sci II: Presentat Design	1
PHDBS 2B40	Data Analysis for Clinical Research	2
PHDBS 3B01	Critical Analysis of Biomedical Research (Students 1-3 complete 3 credits total of PHDBS 3B01)	
PHDBS 1B01	Research	18
Credit Hours 22		
Year 5		
PhD Year III Curriculum		
PHDBS 3B01	Critical Analysis of Biomedical Research (Students 1-3 complete 3 credits total of PHDBS 3B01)	
PHDBS 2B23	Teaching the Biomedical Sciences	1
PHDBS 1B01	Research	15
PHDBS 4B10	Dissertation I	1
PHDBS 4B20	Dissertation II	1
PHDBS 4B30	Dissertation III	2
Credit Hours 22		
Year 6		
DPM Year III Curriculum		
ACLS 3202	Advanced Cardiac Life Support	0.5
POD 3205	HC Systems, Community Med, Med Jurispru	2.5
POD 3206	Evidence-Based Trauma	1
POD 3207	Emerg Med / Pod Trauma	2.5
POD 3210	Basic Surgical & Medical Skills	1
POD 3217A	Podiatric Med & Surg Rotation	12
POD 3217B	Podiatric Med & Surg Rotation	12
POD 3221	Evidence-Based Rearfoot Pathology	1
POD 3224	Evidence-Based Forefoot Pathology	1
POD 3225	Evidence-Based Infectious Disease	1
Credit Hours 44.5		
Year 7		
DPM Year IV Curriculum		
POD 4217	Clinical Skills Assessment (Course taken in 1.0 credit hour increments over three terms)	1
Students must complete 44 credit hours of clinical rotations during their fourth year		
POD 4220	Podiatric Medicine/Surgery Rotation	4-20
POD 4221	Core Rotation	4-12
POD 4222	Private Practice Rotation	4-12
POD 4223	Academic Medicine Rotation	4-16

POD 4224	Medicine Rotation	4-16
POD 4225	Medical Specialties Rotation	4-12
POD 4226	Research Rotation	4-12
POD 4227	Global Health Rotation	2-4

Credit Hours 47

Total Required Credits 244

GRADUATION REQUIREMENTS

Dual enrolled students must meet all graduation requirements for the [Doctor of Osteopathic Medicine](#) degree or [Doctor of Podiatric Medicine](#) degree and graduation requirements for the [Interdisciplinary PhD in Biomedical Sciences](#) degree.