

Students should check admissions requirements and recommendations of individual professional programs to assure completion of prerequisites. Strongly recommended and recommended courses are more likely to vary amongst individual programs in each profession.

This document is provided as an advising resource only. Official curriculum requirements are listed in the JMU Undergraduate Catalog. In the case of discrepancies, the University Catalog is the official curriculum students must follow. Updated 8/14/2024.

		Doctoral						Masters	
	DENTISTRY (DMD, DDS)	MEDICINE (MD, DO, DPM, DC, ND)	OPTOMETRY (OD)	PHARMACY (PHARM D)	PHYSICAL THERAPY (DPT)	VETERINARY MEDICINE (DVM)	OCCUPATIONAL THERAPY (OTD/MSOT)	PHYSICIAN ASSISTANT (MPAS)	ATHLETIC TRAINING (MAT)
Вюсову	Foundations I-II BIO 140 & 140L BIO 150 & 150L ≥ 16 BIO credits Strongly Recommended Microbiology (245 & 245L) ^{FSp} Human Anatomy (290 & 290L) Animal Physiology (370) ^{FSp} Recommended Genetics (240 & 240L) ^{FSp} Cell & Molec Bio (304) ^{Sp} Histology (482) ^{Sp}	Foundations I-II BIO 140 & 140L BIO 150 & 150L ≥ 12 BIO credits Strongly Recommended Genetics (240 & 240L) ^{FSp} Microbiology (245 & 245L) ^{FSp} Cell & Molec Bio (304) ^{Sp} Animal Physiology (370) ^{FSp}	Anatomy BIO 270 & 270L BIO 290 & 290L Microbiology BIO 245 & 245L ≥ 4 BIO credits	Foundations I-II BIO 140 & 140L BIO 150 & 150L Human Physiology and Anatomy BIO 270 & 270L BIO 290 & 290L Microbiology BIO 245 & 245L ≥ 4 BIO credits Strongly Recommended Genetics (240 & 240L) ^{FSp} Cell & Molec Bio (304) ^{Sp} Immunology (343) ^{FSp} Molec Biology (480) ^{FSp}	Foundations I-II BIO 140 & 140L BIO 150 & 150L Human Physiology and Anatomy BIO 270 & 270L *** BIO 290 & 290L ***	Foundations I-II BIO 140 & 140L BIO 150 & 150L Genetics BIO 240 & 240L Microbiology BIO 245 & 245L ≥ 13 BIO credits Strongly Recommended Cell & Molec Bio (304) ^{Sp} Animal Physiology (370) ^{FSp} Recommended Immunology (343) ^{FSp} Med Parasitology (420) ^{FSp}	Human Physiology and Anatomy BIO 270 & 270L *** BIO 290 & 290L *** Recommended ≥ 3 credits of Introductory Biology (BIO 140 & 140L or BIO 103)	Foundations I-II BIO 140 & 140L BIO 150 & 150L Human Physiology and Anatomy BIO 270 & 270L *** BIO 290 & 290L *** Microbiology BIO 245 & 245L ≥ 4 BIO credits Strongly Recommended Genetics (240 & 240L) ^{ESp} Recommended Cell & Molec Bio (304) ^{Sp} Immunology (343) ^{ESp} Histology (482) ^{Sp}	Foundations I BIO 140 & 140L Human Physiology and Anatomy BIO 270 & 270L BIO 290 & 290L
CHEMISTRY	General Chem I-II CHEM 131 & 131L CHEM 132 & 132L Organic Chem I-II CHEM 241 ^{FSu} CHEM 242 & 242L ^{SpSu} Biochemistry CHEM 361 ^{FSp}	General Chem I-II CHEM 131 & 131L CHEM 132 & 132L Organic Chem I-II CHEM 241 ^{FSu} CHEM 242 & 242L ^{SpSu} Biochemistry CHEM 361 ^{FSp}	General Chem I-II CHEM 131 & 131L CHEM 132 & 132L Organic Chem I-II CHEM 241F5u CHEM 242 & 242LSpSu Biochemistry CHEM 361FSp	General Chem I-II CHEM 131 & 131L CHEM 132 & 132L Organic Chem I-II CHEM 241 ^{FSu} CHEM 242 & 242L ^{SpSu} Biochemistry CHEM 361 ^{FSp} (366L ^{Sp} recommended)	General Chem I-II CHEM 131 & 131L CHEM 132 & 132L	Molec Biology (480)FSP Animal Welfare (312)F General Chem I-II CHEM 131 & 131L CHEM 132 & 132L Organic Chem I-II CHEM 241FSU CHEM 242 & 242LSPSU Biochemistry CHEM 361FSP (366LSP recommended)	Chemistry prerequisite for Human Physiology: CHEM 120 or CHEM 131 & 131L	General Chem I-II CHEM 131 & 131L CHEM 132 & 132L Organic Chem I CHEM 241 ^{FSu} , and 241L ^{FSu} or 242L ^{SpSu} Biochemistry CHEM 260 ^{Sp} & 260L ^{Sp} , or CHEM 361 ^{FSp}	General Chem I CHEM 131 & 131L
PHYSICS	College Physics I-II PHYS 140 & 140L PHYS 150 & 150L ^{SpSu}	College Physics I-II PHYS 140 & 140L PHYS 150 & 150L ^{SpSu}	College Physics I-II PHYS 140 & 140L PHYS 150 & 150L ^{SpSu}	College Physics I PHYS 140 & 140L	College Physics I-II PHYS 140 & 140L PHYS 150 & 150L ^{SpSu}	College Physics I-II PHYS 140 & 140L PHYS 150 & 150L ^{SpSu}	College Physics I PHYS 140 & 140L or Biomechanics KIN 306 & 306L**	CHEW 3019	College Physics I PHYS 140 & 140L
Матн	Mathematics 6 credits Strongly Recommended 3 credits of Statistics 3-4 credits of Calculus	Statistics MATH 220 or MATH 229 Calculus 3-4 credits: MATH 205, 231, 233, or 235	Statistics MATH 220 or MATH 229 Calculus 3-4 credits: MATH 205, 231, 233, or 235	Statistics MATH 220 or MATH 229 Calculus 3-4 credits: MATH 205, 231, 233, or 235	Statistics MATH 220 or MATH 229 Recommended Calculus: MATH 205, 231, 233, or 235	Statistics MATH 220 or MATH 229 Calculus 3-4 credits: MATH 205, 231, 233, or 235	Statistics	Statistics MATH 220 or MATH 229 Recommended 3 additional credits of Mathematics	Statistics MATH 220 or MATH 229

	DENTISTRY	MEDICINE	OPTOMETRY	PHARMACY	PHYSICAL THERAPY	VETERINARY MEDICINE	OCCUPATIONAL THERAPY	PHYSICIAN ASSISTANT	ATHLETIC TRAINING
SOCIAL & BEHAVIORAL SCIENCES	≥ 3 credits Psychology or Sociology	Psychology 3 credits of PSYC Sociocultural Gen Ed Recommendation: Gen Psychology (101) or Life Span Human Development (160) Sociology 3 credits of any SOCI or Global Experience Gen Ed Recommendation: SOCI 110 3 credits of ANTH or PSYC or SOCI Recommended: Health Psychology (PSYC 308), Med Sociology (SOCI 375), Mental Health & Illness, (SOCI 385), Med	Psychology Gen Psychology (101)	Psychology 3 credits of PSYC Recommended: Gen Psychology (101) Additional Option: Life Span Human Development (160) Sociology 3 credits of SOCI Recommended: Global Context (SOCI 110) Microsociology (SOCI 140) Economics 3 credits of ECON Recommended: Microeconomics (201) Optional: Macroeconomics (200)	Psychology ≥ 6 credits of PSYC Gen Psychology (101) Life Span Human Development (160) Abnormal Psychology (250 or 335**) Global Experience Gen Ed Recommendation: SOCI 110	Sociocultural GenEd Recommendation Gen Psychology (PSYC 101)	Psychology 9 credits of PSYC: Gen Psychology (101) Life Span Human Development (160) Abnormal Psychology (250 or 335**) Sociology 3 credits of any SOCI or Global Experience Gen Ed Recommendation: SOCI 110 Anthropology Cultural Anthropology (ANTH 195)	Psychology ≥ 6 credits of PSYC Recommended: Gen Psychology (101) Life Span Human Development (160) Abnormal Psychology (250 or 335**) Check individual PA program requirements.	Psychology Gen Psychology (101)
COMMUNICATION	Writing WRTC 103 Literature Any Literature GenEd or Great Works (HUM 200)	Writing WRTC 103 Literature Any Literature GenEd or Great Works (HUM 200)	Writing WRTC 103 Literature Any Literature GenEd or Great Works (HUM 200)	Writing WRTC 103 Literature Any Literature GenEd or Great Works (HUM 200) Communication SCOM 121/122/123	Writing WRTC 103 Literature Any Literature GenEd or Great Works (HUM 200)	Writing WRTC 103 Literature Any Literature GenEd or Great Works (HUM 200) Communication SCOM 121/122/123	Writing WRTC 103 Literature Any Literature GenEd or Great Works (HUM 200)		Writing WRTC 103 Literature Any Literature GenEd or Great Works (HUM 200)
НЕАГТН &					≥ 3 credits Exercise Physiology (KIN 302+302L**) Medical Terminology (HTH 210*) Recommended Biomechanics KIN 306+306L**	Recommended Medical Terminology HTH 210*	Med Terminology HTH 210*	Med Terminology HTH 210*	Med Terminology HTH 210* Exercise Physiology KIN 302+302L** Nutrition NTR 280 Biomechanics KIN 306+306L**
OPTIONAL		Recommended for MCAT prep: Critical Thinking GenEd: Critical Thinking (PHIL 120)					Recommended Critical Thinking GenEd: Ethical Reasoning (PHIL 150)		Recommended: Career Exploration: Introduction to Athletic Training (ATEP 205)

^{*} Declaration of PPH minor does not give enrollment access for class during advanced registration; PPH minor given enrollment access during open enrollment.

** Declaration of PPH minor does not give access to course; declaration in select major programs required.

*** Admissions committees place heavy emphasis on these Biology courses. Students are encouraged to take math and 100-level Biology courses first. Students are strongly encouraged to take at a 4-year institution.

Course offered in Fall Semester

Sp Course offered in Spring Semester

Su Course offered in Summer Session