



Oregon Health & Science University

Program Requirements Guide

2025–2026

Degrees and Certificates Offered

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¹ Completion of post-doctoral certificate required | ² Completion of M.S. required | ³ An M.S. may be awarded in special circumstances; students are admitted to the Ph.D. only (see page 31) | ⁴ Joint program awarded by Oregon Institute of Technology | ⁵ Joint program with Portland State University | ⁶ Joint program awarded by Portland State University | ⁷ Joint program awarded by Oregon State University

Degree Abbreviations

| | |
|----------|---------------------------------------|
| A.A.S. | Associate of Applied Science |
| B.A. | Bachelor of Arts |
| B.S. | Bachelor of Science |
| D.M.D. | Doctor of Dental Medicine |
| D.N.P. | Doctor of Nursing Practice |
| D.P.T. | Doctor of Physical Therapy |
| M.B.A. | Master of Business Administration |
| M.C.R. | Master of Clinical Research |
| M.D. | Doctor of Medicine |
| M.N. | Master of Nursing |
| M.P.A.S. | Master of Physician Assistant Studies |
| M.P.H. | Master of Public Health |
| M.S. | Master of Science |
| Ph.D. | Doctor of Philosophy |
| Pharm.D. | Doctor of Pharmacy |

Maximum Time to Degree

Per the Degree/Certificate Standards policy (02-70-035), all degree requirements must be completed within the following number of years of matriculation. Dual degree requirements must be completed within the sum of the time-to-degree requirements for the two programs.

| <i>Degree</i> | <i>Years</i> |
|----------------------------|--------------|
| Bachelor's Degree | 5 |
| Master's Degree | 6 |
| Graduate Certificate | 4 |
| Doctor of Dental Medicine | 5 |
| Doctor of Medicine | 6 |
| Doctor of Nursing Practice | 5* |
| Doctor of Pharmacy | 5 |
| Doctor of Philosophy | 7 |

* 4 years for the Doctor of Nursing Practice with a major in Nursing

School of Dentistry

Doctoral Degrees

Doctor of Dental Medicine (D.M.D.)

Advanced Education

Endodontics

- Post-Doctoral Certificate Only
- Master of Science (M.S.) and Post-Doctoral Certificate

Orthodontics

- Master of Science (M.S.) and Post-Doctoral Certificate

Periodontics

- Post-Doctoral Certificate Only
- Master of Science (M.S.) and Post-Doctoral Certificate

Doctor of Dental Medicine, D.M.D.

Total credits for completion: 230.5

GPA and grade requirements: All courses taken pass/no pass; grade of “P” required

Required Courses (230.5 cr.)

AN 711 Dental Gross Anatomy (5 cr.)

AN 713 General Histology (3 cr.)

AN 715 Oral Histology (2 cr.)

CDEN 700A Health Promotion I (1 cr.)

CDEN 701 Clinical Scientific Inquiry (1 cr.)

CDEN 705 Social Determinants of Health, Social Justice and Equity (2 cr.)

CDEN 711 Principles of Public Health & Preventive Dentistry (1 cr.)

CDEN 712 Health Care Systems/Finance & Delivery (1 cr.)

CDEN 723 Geriatrics in Oral Health (1 cr.)

CDEN 730 Health Related Behavior (1 cr.)

CDEN 732A Dental Practice Administration: Introduction (1 cr.)

CDEN 732B Dental Practice Administration: Business Foundations (1 cr.)

CDEN 740 Community Based Rotations (8 cr. total)

DEN 730A Introduction to Comprehensive Care I (1 cr.)

DEN 730B Introduction to Comprehensive Care II (1 cr.)

DEN 730C Introduction to Comprehensive Care III (1 cr.)

DEN 740A Introduction to Comprehensive Care IV (0.5 cr.)

DEN 740B Introduction to Comprehensive Care V (2 cr.)

DEN 740C Introduction to Comprehensive Care VI (2 cr.)

DEN 740D Introduction to Comprehensive Care VII (3 cr.)

DEN 754A Comprehensive Care I (10 cr.)

DEN 754B Comprehensive Care II (10 cr.)

DEN 754C Comprehensive Care III (10 cr.)

DEN 754D Comprehensive Care IV (10 cr.)

DEN 756A Comprehensive Care V (8 cr.)

DEN 756B Comprehensive Care VI (8 cr.)

DEN 756C Comprehensive Care VII (8 cr.)

DEN 756D Comprehensive Care VIII (8 cr.)

DM 711 Introduction to Dental Materials (1 cr.)

DM 712 Introduction to Dental Materials II (1 cr.)

DM 731 Applied Dental Materials (1 cr.)
 ENDO 723 Endodontic Principles & Practice I (1 cr.)
 ENDO 724 Foundational Endodontic Treatment I (2 cr.)
 ENDO 725 Foundational Endodontic Treatment II (2 cr.)
 ENDO 733 Endodontic Principles & Practice II (1 cr.)
 ENDO 743 Endodontic Principles & Practice III (1 cr.)
 IB 701 Biophysiology I (6 cr.)
 IB 702 Biophysiology II (6 cr.)
 IB 703 Biophysiology III (6 cr.)
 IPE 701 Foundations of Patient Safety & Interprofessional Practice (1 cr.)
 MB 721 Microbiology & Immunology (3 cr.)
 MB 722 Pathogenic & Oral Microbiology (4 cr.)
 OPTH 721 Basic Disease Processes (2 cr.)
 OPTH 725 Caries (2 cr.)
 OPTH 727 Pathology of the Systems (3 cr.)
 OPTH 731 Oral Pathology II (2 cr.)
 OPTH 732 Oral Pathology III (2 cr.)
 OPTH 733 Oral Pathology IV (2 cr.)
 ORD 722 Facial Growth (1 cr.)
 ORD 723 Orthodontics I (1 cr.)
 ORD 727 Orthodontic Techniques (1 cr.)
 ORD 732 Orthodontics II (1 cr.)
 OS 700 Dental Management of the Medically Complex Patient I (1 cr.)
 OS 701 Dental Management of the Medically Complex Patient II (1 cr.)
 OS 722 Introduction to Oral Surgery (1 cr.)
 OS 725 Anesthesia in Dentistry (2 cr.)
 OS 731 Oral Surgery II (1 cr.)
 OS 733 Advanced Oral Surgery (1 cr.)
 PEDS 725 Theory & Practice of Pediatric Dentistry (1 cr.)
 PEDS 730 Comprehensive Pediatric Dentistry (2 cr.)
 PER 710 Intro to Principles of Periodontology (1 cr.)
 PER 711 Principles of Periodontology I (1 cr.)
 PER 712 Principles of Periodontology II (1 cr.)
 PER 720 Principles of Periodontology III (1 cr.)
 PER 723 Principles of Periodontology IV (1 cr.)
 PER 730 Applied Periodontology (1 cr.)
 PHC 721 General Pharmacology (4 cr.)
 PHC 722 Clinical Pharmacology (4 cr.)
 PROS 731 Advanced Topics in Prosthodontics I (1 cr.)
 PROS 732 Advanced Topics in Prosthodontics II (1 cr.)
 PROS 733 Advanced Topics in Prosthodontics III (1 cr.)
 REST 701 Dental Anatomy (5 cr.)
 REST 702 Introduction to Occlusion (2 cr.)
 REST 703 Minimally Invasive Dentistry I, Direct Restorations SS (2 cr.)
 REST 705 Occlusion (2 cr.)
 REST 706 Direct Restorations I (2 cr.)
 REST 708 Direct Restorations II (2 cr.)
 REST 709 Indirect Restorations II: Part & Full Coverage (2 cr.)
 REST 710 Indirect Restorations: Esthetic (2 cr.)
 REST 711 Indirect Restorations IV: Single/Multiple (2 cr.)
 REST 712 Prosthetic Dentistry I (2 cr.)

REST 713 Prosthetic Dentistry II (2 cr.)
REST 714 Implant Dentistry (2 cr.)
REST 715 Restorative Treatment I (2 cr.)
REST 717 Restorative Treatment III (2 cr.)
REST 718 Restorative Treatment IV (2 cr.)
REST 719 Restorative Treatment V (2 cr.)
REST 720 Sim Clinic Competency (1 cr.)
REST 722 Cad/Cam Technology (1 cr.)
RO 712 Principles of Oral Radiology (2 cr.)
RO 723 Principles of Radiographic Interpretation (1 cr.)

Non-course requirements

Pass the Integrated National Board Dental Examination

Endodontics, Post-Doctoral Certificate

Total credits for completion: 115

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B” or “Pass” in all courses

Required Courses (115 cr.)

ENDO 501-1 Research I (1 cr.)
ENDO 501-2 Research II (1 cr.)
ENDO 501-3 Research III (1 cr.)
ENDO 501-4 Research IV (1 cr.)
ENDO 501-5 Research V (1 cr.)
ENDO 501-6 Research VI (1 cr.)
ENDO 501-7 Research VII (1 cr.)
ENDO 501-8 Research VIII (4 cr.)
ENDO 505A Classic Literature (12 cr. total)
ENDO 505B Current Literature (16 cr. total)
ENDO 507-1 Basic Concepts in Endodontics I (2 cr.)
ENDO 507-2 Basic Concepts in Endodontics II (1 cr.)
ENDO 507-3 Basic Concepts in Endodontics III (1 cr.)
ENDO 507-4 Basic Concepts in Endodontics IV (1 cr.)
ENDO 511 Advanced Clinical Techniques (2 cr.)
ENDO 512 Simulation Clinical Teaching (2 cr. total)
ENDO 513 Clinical Case Review Seminar (3 cr. total)
ENDO 514 Endodontic Clinical Instruction (3 cr. total)
ENDO 550 Advanced Clinical Practice (35 cr. total)
ENDO 555-1 Case Analysis & Treatment Planning I (1 cr.)
ENDO 555-2 Case Analysis & Treatment Planning II (1 cr.)
ENDO 555-3 Case Analysis & Treatment Planning III (1 cr.)
ENDO 555-4 Case Analysis & Treatment Planning IV (1 cr.)
ENDO 555-5 Case Analysis & Treatment Planning V (1 cr.)
ENDO 555-6 Case Analysis & Treatment Planning VI (1 cr.)
OB 511 Oral Biology I (4 cr.)
OB 513 Oral Biology III (3 cr.)
OB 522 Oral Biology II: Statistics (4 cr.)
OPTH 517 Advanced Oral Pathology (1 cr.)
PER 515A Advanced Pain Control/IV Sedation (5 cr.)
PER 515B ACLS (1 cr.)

PER 564 Case Analysis Endodontics/Periodontics I (1 cr.)

PER 565 Case Analysis Endodontics/Periodontics II (1 cr.)

Endodontics, M.S. and Post-Doctoral Certificate

The M.S. in Endodontics is not available as a stand-alone degree. Students can earn an M.S. and post-doctoral Certificate in Endodontics concurrently or a stand-alone post-doctoral certificate in Endodontics.

Total credits for completion: 123

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B” or “Pass” in all courses

Certificate Courses (115 cr.)

Complete all requirements of the post-doctoral Certificate in Endodontics

Thesis Courses (8 cr.)

ENDO 580-1 Masters in Thesis Development I (1 cr.)

ENDO 580-2 Masters in Thesis Development II (1 cr.)

ENDO 580-3 Masters in Thesis Development III (1 cr.)

ENDO 580-4 Masters in Thesis Development IV (1 cr.)

ENDO 580-5 Masters in Thesis Development V (1 cr.)

ENDO 580-6 Masters in Thesis Development VI (1 cr.)

ENDO 580-7 Masters in Thesis Development VII (1 cr.)

ENDO 580-8 Masters in Thesis Development VIII (1 cr.)

Non-course requirements

Thesis

Orthodontics, M.S. and Post-Doctoral Certificate

Neither the M.S. in Orthodontics nor the post-doctoral Certificate in Orthodontics may be earned as a stand-alone award. Students earn an M.S. and post-doctoral Certificate in Orthodontics concurrently.

Total credits for completion: 165

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B” or “Pass” in all courses

Required Courses (165 cr.)

DM 531 Dental Materials (2 cr.)

OB 511 Oral Biology I (4 cr.)

OB 513 Oral Biology III (3 cr.)

OB 522 Oral Biology II: Statistics (4 cr.)

ORD 501 Orthodontic Technique (3 cr.)

ORD 502-1 Cephalometric Theory & Practice 1 (1 cr.)

ORD 502-2 Cephalometric Theory & Practice 2 (1 cr.)

ORD 504-1 Facial Growth 1 (1 cr.)

ORD 504-2 Facial Growth 2 (1 cr.)

ORD 506-1 Osteology 1 (1 cr.)

ORD 506-2 Osteology 2 (1 cr.)

ORD 508-1 Biomechanics 1 (1 cr.)

ORD 508-2 Biomechanics 2 (1 cr.)

ORD 511-1 Orthodontic Theory 1 (1 cr.)

ORD 511-2 Orthodontic Theory 2 (1 cr.)

ORD 511-3 Orthodontic Theory 3 (1 cr.)

ORD 511-4 Orthodontic Theory 4 (1 cr.)
ORD 512 Orthognathic Surgery (1 cr.)
ORD 516-1 Topics in Orthodontics 1 (1 cr.)
ORD 516-2 Topics in Orthodontics 2 (1 cr.)
ORD 516-3 Topics in Orthodontics 3 (1 cr.)
ORD 516-4 Topics in Orthodontics 4 (1 cr.)
ORD 527-1 Orthodontic Literature Review 1 (1 cr.)
ORD 527-2 Orthodontic Literature Review 2 (1 cr.)
ORD 527-3 Orthodontic Literature Review 3 (1 cr.)
ORD 527-4 Orthodontic Literature Review 4 (1 cr.)
ORD 527-5 Orthodontic Literature Review 5 (1 cr.)
ORD 527-6 Orthodontic Literature Review 6 (1 cr.)
ORD 527-7 Orthodontic Literature Review 7 (1 cr.)
ORD 527-8 Orthodontic Literature Review 8 (1 cr.)
ORD 527-9 Orthodontic Literature Review 9 (1 cr.)
ORD 527-10 Orthodontic Literature Review 10 (1 cr.)
ORD 533-1 Advanced Orthodontic Theory 1 (1 cr.)
ORD 533-2 Advanced Orthodontic Theory 2 (2 cr.)
ORD 533-3 Advanced Orthodontic Theory 3 (2 cr.)
ORD 533-4 Advanced Orthodontic Theory 4 (1 cr.)
ORD 533-5 Advanced Orthodontic Theory 5 (1 cr.)
ORD 543-1 Masters in Orthodontics Research 1 (1 cr.)
ORD 543-2 Masters in Orthodontics Research 2 (1 cr.)
ORD 543-3 Masters in Orthodontic Research 3 (1 cr.)
ORD 543-4 Masters in Orthodontic Research 4 (2 cr.)
ORD 543-5 Masters in Orthodontics Research 5 (2 cr.)
ORD 543-6 Masters in Orthodontics Research 6 (2 cr.)
ORD 543-7 Masters in Orthodontics Research 7 (2 cr.)
ORD 543-8 Masters in Orthodontics Research 8 (2 cr.)
ORD 543-9 Masters in Orthodontics Research 9 (2 cr.)
ORD 547-1 Orthodontic Diagnosis & Treatment Planning 1 (4 cr.)
ORD 547-2 Ortho Diagnosis & Treatment Planning 2 (3 cr.)
ORD 547-3 Ortho Diagnosis & Treatment Planning 3 (3 cr.)
ORD 547-4 Ortho Diagnosis & Treatment Planning 4 (4 cr.)
ORD 554-1 Orthodontic Case Analysis 1 (1 cr.)
ORD 554-2 Orthodontic Case Analysis 2 (1 cr.)
ORD 554-3 Orthodontic Case Analysis 3 (1 cr.)
ORD 554-4 Orthodontic Case Analysis 4 (2 cr.)
ORD 554-5 Orthodontic Case Analysis 5 (1 cr.)
ORD 554-6 Orthodontic Case Analysis 6 (1 cr.)
ORD 555 Pre-Doctoral Lab Instruction (1 cr.)
ORD 559-1 Pre-doctoral Clinic Instruction 1 (1 cr.)
ORD 559-2 Pre-doctoral Clinic Instruction 2 (1 cr.)
ORD 559-3 Pre-doctoral Clinic Instruction 3 (1 cr.)
ORD 559-4 Pre-doctoral Clinic Instruction 4 (1 cr.)
ORD 563-1 Practice Management 1 (1 cr.)
ORD 563-2 Practice Management 2 (1 cr.)
ORD 563-3 Practice Management 3 (1 cr.)
ORD 571-1 Craniofacial Disorders 1 (1 cr.)
ORD 571-2 Craniofacial Disorders 2 (1 cr.)
ORD 571-3 Craniofacial Disorders 3 (1 cr.)

ORD 571-4 Craniofacial Disorders 4 (1 cr.)
 ORD 571-5 Craniofacial Disorders 5 (1 cr.)
 ORD 571-6 Craniofacial Disorders 6 (1 cr.)
 ORD 571-7 Craniofacial Disorders 7 (1 cr.)
 ORD 571-8 Craniofacial Disorders 8 (1 cr.)
 ORD 579-1 Orthognathic Surgery Case Conference 1 (1 cr.)
 ORD 579-2 Orthognathic Surgery Case Conference 2 (1 cr.)
 ORD 579-3 Orthognathic Surgery Case Conference 3 (1 cr.)
 ORD 579-4 Orthognathic Surgery Case Conference 4 (1 cr.)
 ORD 579-5 Orthognathic Surgery Case Conference 5 (1 cr.)
 ORD 579-6 Orthognathic Surgery Case Conference 6 (1 cr.)
 ORD 579-7 Orthognathic Surgery Case Conference 7 (1 cr.)
 ORD 580-1 Masters in Thesis Development 1 (1 cr.)
 ORD 580-2 Masters in Thesis Development 2 (1 cr.)
 ORD 580-3 Masters in Thesis Development 3 (1 cr.)
 ORD 580-4 Masters in Thesis Development 4 (1 cr.)
 ORD 580-5 Masters in Thesis Development 5 (1 cr.)
 ORD 580-6 Masters in Thesis Development 6 (1 cr.)
 ORD 580-7 Masters in Thesis Development 7 (1 cr.)
 ORD 580-8 Masters in Thesis Development 8 (1 cr.)
 ORD 580-9 Masters in Thesis Development 9 (1 cr.)
 ORD 580-10 Masters in Thesis Development 10 (1 cr.)
 ORD 590-1 Post-doctoral Orthodontic Clinic 1 (3 cr.)
 ORD 590-2 Post-doctoral Orthodontic Clinic 2 (3 cr.)
 ORD 590-3 Post-doctoral Orthodontic Clinic 3 (4 cr.)
 ORD 590-4 Post-doctoral Orthodontic Clinic 4 (4 cr.)
 ORD 590-5 Post-doctoral Orthodontic Clinic 5 (5 cr.)
 ORD 590-6 Post-doctoral Orthodontic Clinic 6 (5 cr.)
 ORD 590-7 Post-doctoral Orthodontic Clinic 7 (5 cr.)
 ORD 590-8 Post-doctoral Orthodontic Clinic 8 (5 cr.)
 ORD 590-9 Post-doctoral Orthodontic Clinic 9 (5 cr.)
 ORD 590-10 Post-doctoral Orthodontic Clinic 10 (5 cr.)
 PER 518 Interdisciplinary Specialties II (1 cr.)
 PER 519 Advanced Interdisciplinary Specialties (1 cr.)

Non-course requirements

Thesis

Periodontics, Post-Doctoral Certificate

Total credits for completion: 225

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B” or “Pass” in all courses

Required Courses (225 cr.)

OB 511 Oral Biology I (4 cr.)
 OB 513 Oral Biology III (3 cr.)
 OB 522 Oral Biology II: Statistics (4 cr.)
 OPTH 505 Advanced Oral & Maxillofacial Histopathology (2 cr.)
 PER 501 Research I (3 cr. total)
 PER 502 Research II (8 cr. total)
 PER 503 Research III (8 cr. total)

PER 505-1 Current Literature I (1 cr.)
 PER 505-2 Current Literature II (1 cr.)
 PER 505-3 Current Literature III (1 cr.)
 PER 505-4 Current Literature IV (1 cr.)
 PER 506-1 Current Literature V (1 cr.)
 PER 506-2 Current Literature VI (1 cr.)
 PER 506-3 Current Literature VII (1 cr.)
 PER 506-4 Current Literature VIII (1 cr.)
 PER 507-1 Current Literature IX (1 cr.)
 PER 507-2 Current Literature X (1 cr.)
 PER 507-3 Current Literature XI (1 cr.)
 PER 507-4 Current Literature XII (1 cr.)
 PER 515A Advanced Pain Control/IV Sedation (5 cr.)
 PER 515B ACLS (1 cr.)
 PER 517 Interdisciplinary Specialties I (1 cr.)
 PER 518 Interdisciplinary Specialties II (1 cr.)
 PER 519 Advanced Interdisciplinary Specialties (1 cr.)
 PER 530-1 Classic Literature I (3 cr.)
 PER 530-2 Classic Literature II (3 cr.)
 PER 530-3 Classic Literature III (3 cr.)
 PER 530-4 Classic Literature IV (3 cr.)
 PER 540-1 Classic Literature V (3 cr.)
 PER 540-2 Classic Literature VI (3 cr.)
 PER 540-3 Classic Literature VII (3 cr.)
 PER 540-4 Classic Literature VIII (3 cr.)
 PER 548 Advanced Principles in Surgical Periodontics (1 cr.)
 PER 550-1 Classic Literature IX (3 cr.)
 PER 550-2 Classic Literature X (3 cr.)
 PER 550-3 Classic Literature XI (3 cr.)
 PER 550-4 Classic Literature XII (3 cr.)
 PER 551-1 Advanced Periodontology Clinic I (4 cr.)
 PER 551-2 Advanced Periodontology Clinic II (9 cr.)
 PER 551-3 Advanced Periodontology Clinic III (9 cr.)
 PER 551-4 Advanced Periodontology Clinic IV (9 cr.)
 PER 552-1 Periodontics Treatment Plan/Therapy Seminar 1 (1 cr.)
 PER 552-2 Periodontics Treatment Plan/Therapy Seminar 2 (1 cr.)
 PER 552-3 Periodontics Treatment Plan/Therapy Seminar 3 (1 cr.)
 PER 553-1 Fundamentals of Periodontics & Implants I (3 cr.)
 PER 553-2 Fundamentals of Periodontics & Implants II (1 cr.)
 PER 553-3 Fundamentals of Periodontics & Implants III (1 cr.)
 PER 553-4 Fundamentals of Periodontics & Implants IV (1 cr.)
 PER 554 Anesthesiology Hospital Rotation (1 cr.)
 PER 561-1 Advanced Periodontology Clinic V (10 cr.)
 PER 561-2 Advanced Periodontology Clinic VI (9 cr.)
 PER 561-3 Advanced Periodontology Clinic VII (10 cr.)
 PER 561-4 Advanced Periodontology Clinic VIII (10 cr.)
 PER 562-1 Periodontics Treatment Plan/Therapy Seminar 4 (1 cr.)
 PER 562-2 Periodontics Treatment Plan/Therapy Seminar 5 (1 cr.)
 PER 562-3 Periodontics Treatment Plan/Therapy Seminar 6 (1 cr.)
 PER 563-1 Advanced Concepts in Periodontics & Implants I (1 cr.)
 PER 563-2 Advanced Concepts in Periodontics & Implants II (1 cr.)

PER 563-3 Advanced Concepts in Periodontics & Implants III (1 cr.)
PER 564 Case Analysis Endodontics/Periodontics I (1 cr.)
PER 565 Case Analysis Endodontics/Periodontics II (1 cr.)
PER 566 Case Analysis Endodontics/Periodontics III (1 cr.)
PER 571-1 Advanced Periodontology Clinic IX (10 cr.)
PER 571-2 Advanced Periodontology Clinic X (10 cr.)
PER 571-3 Advanced Periodontology Clinic XI (10 cr.)
PER 571-4 Advanced Periodontology Clinic XII (10 cr.)
PER 572-1 Periodontics Treatment Plan/Therapy Seminar 7 (1 cr.)
PER 572-2 Periodontics Treatment Plan/Therapy Seminar 8 (1 cr.)
PER 572-3 Periodontics Treatment Plan/Therapy Seminar 9 (1 cr.)
PER 573-1 Advanced Concepts in Periodontics & Implants IV (1 cr.)
PER 573-2 Advanced Concepts in Periodontics & Implants V (1 cr.)
PER 573-3 Advanced Concepts in Periodontics & Implants VI (1 cr.)

Periodontics, M.S. and Post-Doctoral Certificate

The M.S. in Periodontics is not available as a stand-alone degree. Students can earn an M.S. and post-doctoral Certificate in Periodontics concurrently or a stand-alone post-doctoral certificate in Periodontics.

Total credits for completion: 257

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B” or “Pass” in all courses

Certificate Courses (225 cr.)

Complete all requirements of the post-doctoral Certificate in Periodontics

Thesis Courses (32 cr.)

PER 580-1 Masters in Thesis Development I (1 cr.)
PER 580-2 Masters in Thesis Development II (1 cr.)
PER 580-3 Masters in Thesis Development III (1 cr.)
PER 580-4 Masters in Thesis Development IV (1 cr.)
PER 580-5 Masters in Thesis Development V (3 cr.)
PER 580-6 Masters in Thesis Development VI (3 cr.)
PER 580-7 Masters in Thesis Development VII (3 cr.)
PER 580-8 Masters in Thesis Development VIII (3 cr.)
PER 580-9 Masters in Thesis Development IX (4 cr.)
PER 580-10 Masters in Thesis Development X (4 cr.)
PER 580-11 Masters in Thesis Development XI (4 cr.)
PER 580-12 Masters in Thesis Development XII (4 cr.)

Non-course requirements

Thesis

School of Medicine – Graduate and Undergraduate Programs

| Area | Degrees | Certificates |
|---|---|---|
| Human Investigations | Master of Clinical Research (M.C.R.) • Human Investigations Program | Graduate Certificate • Human Investigations Program |
| Human Nutrition | Master of Science (M.S.) • Food Systems & Society • Human Nutrition | Graduate Certificate • Dietetic Internship |
| Management | Master of Business Administration (M.B.A.) ¹ • Healthcare Management Master of Science (M.S.) • Healthcare Administration | |
| Medical Informatics & Clinical Epidemiology | Doctor of Philosophy (Ph.D.) • Bioinformatics & Computational Biomedicine • Health & Clinical Informatics Master of Science (M.S.) • Bioinformatics & Computational Biomedicine • Health & Clinical Informatics | Graduate Certificate • Health & Clinical Informatics |
| Physician Assistant | Master of Physician Assistant Studies (M.P.A.S.) | |
| Radiation Medicine | Doctor of Philosophy (Ph.D.) • Medical Physics Master of Science (M.S.) • Medical Physics Bachelor of Science (B.S.) ² • Radiation Therapy | |
| Research doctorates | Doctor of Philosophy (Ph.D.) ³ • Behavioral & Systems Neuroscience • Biomedical Engineering • Biomedical Sciences • Clinical Psychology • Neuroscience | |
| Joint programs ⁴ | Doctor of Physical Therapy (D.P.T.) Bachelor of Science (B.S.) • Emergency Medical Services Management • Medical Laboratory Science Associate of Applied Science (A.A.S.) • Emergency Medical Technology—Paramedic | |

¹Awarded jointly with Portland State University

²See *Requirements for the Bachelor of Science at OHSU* for program requirements

³A Master of Science (M.S.) in these fields may be awarded in special circumstances; students are admitted to the Ph.D. only

⁴Awarded jointly by Oregon Institute of Technology—see Oregon Institute of Technology publications for program requirements

HUMAN INVESTIGATIONS

Human Investigations Program, M.C.R.

Total credits for completion: 45

GPA and grade requirements: All HIP courses require a grade of Pass; non-HIP courses taken for a grade require a grade of “B-” or higher and an overall GPA of 3.0

Core Courses (16.5 cr.)

Select one course (2 cr.)

- HIP 507A Evidence-based Medicine Seminar (2 cr.)
- HIP 538 Community-Engaged Research (2 cr.)

HIP 510 Introduction to Clinical Research (1 cr.)

HIP 511 Clinical Research Design I (2 cr.)

HIP 511A Proposal Development (3 cr. total)

HIP 512 Clinical Research Design II (2 cr.)

HIP 513 Clinical Research Design III (2 cr.)

HIP 516 Protection of Human Subjects (1 cr.)

HIP 517 Scientific Writing & Data Presentation (1.5 cr.)

HIP 523 Data Science for Clinical & Translational Research (2 cr.)

Mentored Capstone Project (6 cr.)

HIP 526 Capstone – Mentored Experience (variable cr.)

Elective Courses (22.5 cr. minimum)

Select from the following:

- Any 500-level course with prefix HIP
- Any graduate course with prefix BMI, BSTA, CELL, CONJ, MGEN, MGRD, NEUS, PA, or PHPM
- UNI 504 Qualitative Methods for Health Professionals (2 cr.)
- Other relevant graduate courses with program approval

Non-course requirements

Capstone

Human Investigations Program, Graduate Certificate

Total credits for completion: 24

GPA and grade requirements: All HIP courses require a grade of Pass; non-HIP courses taken for a grade require a grade of “B-” or higher and an overall GPA of 3.0

Core Courses (16.5 cr.)

Select one course (2 cr.)

- HIP 507A Evidence-based Medicine Seminar (2 cr.)
- HIP 538 Community-Engaged Research (2 cr.)

HIP 510 Introduction to Clinical Research (1 cr.)

HIP 511 Clinical Research Design I (2 cr.)

HIP 511A Proposal Development (3 cr. total)

HIP 512 Clinical Research Design II (2 cr.)

HIP 513 Clinical Research Design III (2 cr.)

HIP 516 Protection of Human Subjects (1 cr.)

HIP 517 Scientific Writing & Data Presentation (1.5 cr.)

HIP 523 Data Science for Clinical & Translational Research (2 cr.)

Mentored Capstone Project (6 cr.)

HIP 526 Capstone – Mentored Experience (variable cr.)

Elective Courses (1.5 cr. minimum)

Select from the following:

- Any 500-level course with prefix HIP
- Any graduate course with prefix BMI, BSTA, CELL, CONJ, MGEN, MGRD, NEUS, PA, or PHPM
- UNI 504 Qualitative Methods for Health Professionals (2 cr.)
- Other relevant graduate courses with program approval

Non-course requirements

Capstone

HUMAN NUTRITION

Food Systems & Society, M.S.

Total credits for completion: 50

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in all courses

Required Courses (34 cr.)

FSS 500 Food Systems Inquiry (4 cr.)

FSS 501 Concepts & Contexts in Food Systems & Society (4 cr.)

FSS 502 Academic Foundations (1 cr.)

FSS 503 Critical Text-based Research (1 cr.)

FSS 510 Food Policy & Politics (4 cr.)

FSS 511 Food Systems and Culture (4 cr.)

FSS 520 Food Systems Theories and Methodologies (4 cr.)

FSS 550 Social Movements in Food Systems and Society (4 cr.)

FSS 560 Economic Justice in Food Systems & Society (4 cr.)

FSS 580 Scholarship & Social Change (4 cr.)

Capstone (16 cr.)

FSS 504 Capstone Preparation (1 cr.)

FSS 506 Capstone Completion (1 cr.)

FSS 598-A Capstone 1 (5 cr.)

FSS 598-B Capstone 2 (5 cr.)

FSS 598-C Capstone 3 (4 cr.)

Human Nutrition, M.S.

Total credits for completion: 45

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in all core courses

Core Courses (26 cr.)

BSTA 525 Introduction to Biostatistics (4 cr.)

NUTN 505 Reading and Conference (2 cr.)

NUTN 507 Nutrition Seminar (1 cr.)

NUTN 508 Journal Club (2 cr.)
 NUTN 514 Nutrition Research & Scientific Communication (3 cr.)
 NUTN 521 Energy Metabolism (3 cr.)
 NUTN 522 Antioxidant, Bone and Protein Metabolism (3 cr.)
 NUTN 527 Nutritional Epidemiology (2 cr.)
 NUTN 529A Nutritional Physiology (3 cr.)
 NUTN 529B Nutritional Physiology (3 cr.)

Thesis or Capstone (6 cr.)

Thesis Option (6 cr.)

- NUTN 503 Thesis (6 cr. total); *students must be registered for a minimum of 1 credit of NUTN 503 each term while engaged in thesis work*

Capstone Option (6 cr.)

- NUTN 506 Capstone Project (6 cr. total); *students must be registered for a minimum of 1 credit of NUTN 506 each term while engaged in capstone work*

Elective Courses (13 cr.)

Select from the following:

- NUTN 516A Nutrition Physical Exam (2 cr.)
- NUTN 516B Nutrition Physical Exam Lab (1 cr.)
- Any course with prefix NUTN numbered 530 or above
- Any 500-level course with prefix IPE or UNI
- Other relevant graduate courses with program approval, up to 4 cr. maximum

A maximum of 3 cr. of NUTN 502 Independent Study can be applied to elective courses; additional NUTN 502 credits may be applied with program approval.

Non-course requirements

Thesis or capstone

Dietetic Internship, Graduate Certificate

Total credits for completion: 22

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in all courses

Core Courses (22 cr.)

IPE 501 Foundations of Patient Safety & Interprofessional Practice (1 cr.)
 NUTN 501A Academic Foundations (1 cr.)
 NUTN 501B Transition to Clinical Nutrition (1 cr.)
 NUTN 501C Transition to Professional Practice (1 cr.)
 NUTN 504 Supervised Practice (18 cr. total)

Non-course requirements

To earn the certificate, students must have a previous or concurrently earned master’s degree or higher

MANAGEMENT

Healthcare Management, M.B.A.

Total credits for completion: 63

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C+” in all courses

MGT 520 Organizational Mindsets for Managers (5 cr.)
 MGT 530 Business Strategy in Healthcare (4 cr.)
 MGT 532 Design & Innovation (5 cr.)
 MGT 549 Business Intelligence (4 cr.)
 MGT 552 Portfolio Management (4 cr.)
 MGT 554 Capstone (5 cr.)
 MGT 560 Healthcare Systems (5 cr.)
 MGT 561 Financial Reporting (4 cr.)
 MGT 565 Leadership Skills for Healthcare (4 cr.)
 MGT 569 Marketing & Strategic Communications (5 cr.)
 MGT 570 Operations & Quality Management (5 cr.)
 MGT 572 Financial Management (4 cr.)
 MGT 575 Healthcare Economics (4 cr.)
 MGT 576 Executive Decision Making (5 cr.)

Healthcare Administration, M.S.

Total credits for completion: 54

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C+” in all courses

MGT 519 Program Management (5 cr.)
 MGT 520 Organizational Mindsets for Managers (5 cr.)
 MGT 522 Influencing Change in Organizations (4 cr.)
 MGT 554 Capstone (5 cr.)
 MGT 560 Healthcare Systems (5 cr.)
 MGT 561 Financial Reporting (4 cr.)
 MGT 564 Strategic Planning in Healthcare (4 cr.)
 MGT 565 Leadership Skills for Healthcare (4 cr.)
 MGT 570 Operations & Quality Management (5 cr.)
 MGT 572 Financial Management (4 cr.)
 MGT 578 Managerial Decision Making (5 cr.)
 MGT 592 Strategic Communications (4 cr.)

MEDICAL INFORMATICS & CLINICAL EPIDEMIOLOGY

Bioinformatics & Computational Biomedicine, Ph.D.

Total credits for completion: 135

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in all courses

Bioinformatics and Computational Biomedicine (11 cr.)

BMI 650 Bioinformatics & Computational Biomedicine I: Algorithms (4 cr.)
 BMI 651 Bioinformatics & Computational Biomedicine II: Statistical Methods (4 cr.)
 BMI 652A Research in Bioinformatics & Computational Biomedicine (1 cr.)
 BMI 652B Research in Bioinformatics & Computational Biomedicine (1 cr.)
 BMI 653 Readings in Bioinformatics & Computational Biomedicine (1 cr.)

Biomedical Sciences (9 cr. minimum)

BMI 630 The Practice of Health Care (3 cr.)

Select one course (3-4 cr.)

- BMI 612 Clinical Information Systems (3 cr.)
- BMI 659 Genetics for Computational Biologists (3 cr.)
- NEUS 624 Cellular Neurophysiology (4 cr.)

Select one course (2-3 cr.)

- BMSC 661 Structure & Function of Biological Molecules (3 cr.)
- BMSC 662 Genetic Mechanisms & Bioregulation (3 cr.)
- BMSC 663 Molecular & Cell Biology (3 cr.)
- MGEN 622 Advanced Topics in Genome Sciences (3 cr.)
- MGEN 623 Genetic Basis of Human Disease (3 cr.)
- MGEN 624 Gene & Cell Therapy (2 cr.)

Computer Science (12 cr.)

BMI 635 Management & Processing of Large Scale Data (3 cr.)

BMI 643 Machine Learning (3 cr.)

BMI 646 Software Engineering (3 cr.)

BMI 665 Bioinformatics Programming & Scripting (3 cr.)

Analytics and Biostatistics (3 cr.)

BMI 631 Probability & Statistical Inference (3 cr.)

Dissertation Prep (7 cr.)

BMI 670 Scientific Writing & Communication for Informatics Students (3 cr.)

BMI 676 Managing Ethics in Biomedical Informatics (3 cr.)

HIP 516 Protection of Human Subjects (1 cr.)

Reading and Conference (10 cr.)

BMI 605F PhD/Fellows Meeting (1 cr.; taken 10 times)

Symposium (3 cr.)

BMI 657 Symposium (3 cr.)

Mentored Teaching (8 cr.)

BMI 654 Mentored Teaching Prep (1 cr.; taken twice)

BMI 655 Mentored Teaching (3 cr.; taken twice)

Advanced Research Methods (12 cr.)

Courses selected by advisement. Any graduate course may be used to fulfill this requirement.

Cognate Area (12 cr.)

Courses selected by advisement. Any graduate course may be used to fulfill this requirement.

Research and Dissertation (48 cr.)

BMI 601 Research (47 cr. total)

BMI 603 Dissertation (1 cr.)

Non-course requirements

Qualifying examination

Doctoral dissertation and defense

Health & Clinical Informatics, Ph.D.

Total credits for completion: 135

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in all courses

Biomedical Informatics (6 cr.)

BMI 610 Introduction to Biomedical Informatics and Artificial Intelligence (3 cr.)

Select one course (3 cr.)

- BMI 612 Clinical Information Systems (3 cr.)
- BMI 616 Standards for Interoperability (3 cr.)

Healthcare (6 cr.)

BMI 630 The Practice of Health Care (3 cr.)

Select one course (3 cr.)

- BMI 636 Evidence-Based Medicine (3 cr.)
- BMI 637 Healthcare Quality (3 cr.)
- BMI 638 Medical Decision Making (3 cr.)

Computer Science (9 cr.)

BMI 640 Computer Science & Programming for Clinical Info (3 cr.)

BMI 644 Databases (3 cr.)

Select one course (3 cr.)

- BMI 624 Analytics for Healthcare (3 cr.)
- BMI 646 Software Engineering (3 cr.)
- BMI 648 Human Computer Interaction (3 cr.)

Evaluative Sciences (11 cr.)

BMI 652A Research in Bioinformatics & Computational Biomedicine (1 cr.)

BMI 652B Research in Bioinformatics & Computational Biomedicine (1 cr.)

BMI 660 Design & Evaluation in Health Informatics (3 cr.)

HIP 511 Clinical Research Design I (2 cr.)

HIP 512 Clinical Research Design II (2 cr.)

HIP 513 Clinical Research Design III (2 cr.)

Organizational Behavior and Management (6 cr.)

BMI 617 Organizational Behavior & Management (3 cr.)

BMI 618 Project Management (3 cr.)

Reading and Conference (10 cr.)

BMI 605F PhD/Fellows Meeting (1 cr.; taken 10 times)

Advanced Research Methods (12 cr.)

Courses selected by advisement. Any graduate course may be used to fulfill this requirement.

Cognate Area (12 cr.)

Courses selected by advisement. Any graduate course may be used to fulfill this requirement.

Symposium (3 cr.)

BMI 657 Symposium (3 cr.)

Mentored Teaching (8 cr.)

BMI 654 Mentored Teaching Prep (1 cr.; taken twice)

BMI 655 Mentored Teaching (3 cr.; taken twice)

Dissertation Prep (7 cr.)

BMI 670 Scientific Writing & Communication for Informatics Students (3 cr.)

BMI 676 Managing Ethics in Biomedical Informatics (3 cr.)

HIP 516 Protection of Human Subjects (1 cr.)

Research and Dissertation (45 cr.)

BMI 601 Research (44 cr. total)

BMI 603 Dissertation (1 cr.)

Non-course requirements

Qualifying examination

Doctoral dissertation and defense

Bioinformatics & Computational Biomedicine, M.S.

Total credits for completion: 55 (Thesis Option) or 49 (Non-Thesis Option)

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in all courses

Bioinformatics and Computational Biomedicine (11 cr.)

BMI 550 Bioinformatics & Computational Biomedicine I: Algorithms (4 cr.)

BMI 551 Bioinformatics & Computational Biomedicine II: Statistical Methods (4 cr.)

BMI 552A Research in Bioinformatics & Computational Biomedicine (1 cr.)

BMI 552B Research in Bioinformatics & Computational Biomedicine (1 cr.)

BMI 553 Readings in Bioinformatics & Computational Biomedicine (1 cr.)

Biomedical Sciences (6 cr.)

BMI 530 The Practice of Health Care (3 cr.)

Select one course (3 cr.)

- BMI 512 Clinical Information Systems (3 cr.)
- BMI 559 Genetics for Computational Biologists (3 cr.)

Computer Science (12 cr.)

BMI 535 Management & Processing of Large Scale Data (3 cr.)

BMI 543 Machine Learning (3 cr.)

BMI 546 Software Engineering (3 cr.)

BMI 565 Bioinformatics Programming & Scripting (3 cr.)

Analytics and Biostatistics (3 cr.)

BMI 531 Probability & Statistical Inference (3 cr.)

Thesis or Capstone Prep (6 cr.)

BMI 570 Scientific Writing & Communication for Informatics Students (3 cr.)

BMI 576 Managing Ethics in Biomedical Informatics (3 cr.)

Elective Courses (5 cr.)

- Any 500-level course with prefix BMI
- Other graduate courses with program approval

Thesis or Non-thesis (6-12 cr.)

Thesis Option (12 cr.)

- BMI 503 Thesis (12 cr. total)

Non-thesis Option (6 cr.)

Select one:

- BMI 581 Capstone Project (6 cr.)
- BMI 590 Capstone Internship (6 cr.)

Non-course requirements

Thesis or capstone

Health & Clinical Informatics, M.S.

Total credits for completion: 55 (Thesis Option) or 49 (Non-Thesis Option)

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in all courses

Biomedical Informatics (6 cr.)

BMI 510 Introduction to Biomedical Informatics and Artificial Intelligence (3 cr.)

Select one course (3 cr.)

- BMI 512 Clinical Information Systems (3 cr.)
- BMI 516 Standards for Interoperability (3 cr.)

Healthcare (6 cr.)

BMI 530 The Practice of Health Care (3 cr.)

Select one course (3 cr.)

- BMI 536 Evidence-Based Medicine (3 cr.)
- BMI 537 Healthcare Quality (3 cr.)
- BMI 538 Medical Decision Making (3 cr.)

Computer Science (9 cr.)

BMI 540 Computer Science & Programming for Clinical Info (3 cr.)

BMI 544 Databases (3 cr.)

Select one course (3 cr.)

- BMI 524 Analytics for Healthcare (3 cr.)
- BMI 546 Software Engineering (3 cr.)
- BMI 548 Human Computer Interaction (3 cr.)

Evaluative Sciences (7-10 cr.)

BMI 560 Design & Evaluation in Health Informatics (3 cr.)

BSTA 525 Introduction to Biostatistics (4 cr.)

Thesis option only: select one course (3 cr.)

- BMI 561 Qualitative Research Methods (3 cr.)
- BMI 562 Quantitative Research Methods (3 cr.)

Organizational Behavior and Management (6 cr.)

BMI 517 Organizational Behavior & Management (3 cr.)

BMI 518 Project Management (3 cr.)

Thesis or Capstone Prep (6 cr.)

BMI 570 Scientific Writing & Communication for Informatics Students (3 cr.)

BMI 576 Managing Ethics in Biomedical Informatics (3 cr.)**Thesis or Non-thesis Option (6-12 cr.)***Thesis Option (12 cr.)*

- BMI 503 Thesis (12 cr. total)

Non-thesis Option (6 cr.)

- BMI 581 Capstone Project (6 cr.) or BMI 590 Capstone Internship (6 cr.)

Elective Courses (3 cr.)*Non-thesis option only*

- Any 500-level course with prefix BMI
- Other graduate courses with program approval

Non-course requirements

Thesis or capstone

Health & Clinical Informatics, Graduate Certificate

Total credits for completion: 21

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in all courses

Required Courses (9 cr.)

BMI 510 Introduction to Biomedical Informatics and Artificial Intelligence (3 cr.)

BMI 512 Clinical Information Systems (3 cr.)

BMI 517 Organizational Behavior & Management (3 cr.)

Elective Courses (12 cr.)

- Any 500-level course with prefix BMI
- Other graduate courses with program approval

PHYSICIAN ASSISTANT**Master of Physician Assistant Studies, M.P.A.S.**

Total credits for completion: 144

GPA and grade requirements: Grade of “Pass” in all courses

Required Courses (75 cr.)

ANAT 511UN Foundations of Clinical Anatomy (5 cr.)

IPE 501 Foundations of Patient Safety & Interprofessional Practice (1 cr.)

PAST 507A Electrocardiography (1 cr.)

PAST 509 Clinical Practicum I (3 cr.)

PAST 509A Clinical Practicum II (3 cr.)

PAST 509B Clinical Practicum III (3 cr.)

PAST 510 Physical Diagnosis (4 cr.)

PAST 511 Physical Diagnosis Lab (2 cr.)

PAST 515 Clinical Medicine Tutorial I (3 cr.)

PAST 516 Clinical Medicine Tutorial II (3 cr.)

PAST 517 Clinical Medicine Tutorial III (3 cr.)

PAST 518A Principles of Professional Practice I (3 cr.)
 PAST 518B Principles of Professional Practice II (2 cr.)
 PAST 520 Principles of Professional Practice III (2 cr.)
 PAST 521 Principles of Professional Practice IV (2 cr.)
 PAST 528 Introduction to Epidemiology & Evidence-Based Medicine (2 cr.)
 PAST 545 Clinical Medicine I (6 cr.)
 PAST 546 Clinical Medicine II (6 cr.)
 PAST 547 Clinical Medicine III (7 cr.)
 PAST 565 Basic Science I (2 cr.)
 PAST 566 Basic Science II (2 cr.)
 PAST 567 Basic Science III (2 cr.)
 PAST 571 Intro to Pathophysiology/Mechanisms of Disease (3 cr.)
 PAST 572 Intro to Pharmacotherapeutics (2 cr.)
 PAST 575 Clinical Pharmacotherapeutics I (1 cr.)
 PAST 576 Clinical Pharmacotherapeutics II (1 cr.)
 PAST 577 Clinical Pharmacotherapeutics III (1 cr.)

Clinical Courses (69 cr.)

PAST 506A Community Outreach Project I (1 cr.)
 PAST 506B Community Outreach Project II (1 cr.)
 PAST 506C Community Outreach Project III (1 cr.)
 PAST 506D Community Outreach Project IV (1 cr.)
 PAST 506E Community Outreach Project V (1 cr.)
 PAST 526 Applied Clinical Skills I (2 cr.)
 PAST 541 Applied Clinical Skills II (4 cr.)
 PAST 542 Bridge to Professional Practice (3 cr.)
 PAST 581 Supervised Clinical Experience I (5 cr.)
 PAST 582 Supervised Clinical Experience II (5 cr.)
 PAST 583 Supervised Clinical Experience III (5 cr.)
 PAST 584 Supervised Clinical Experience IV (5 cr.)
 PAST 585 Supervised Clinical Experience V (5 cr.)
 PAST 586 Supervised Clinical Experience VI (5 cr.)
 PAST 587 Supervised Clinical Experience VII (5 cr.)
 PAST 588 Supervised Clinical Experience VIII (5 cr.)
 PAST 589 Supervised Clinical Experience IX (5 cr.)
 PAST 590 Supervised Clinical Experience X (5 cr.)
 PAST 591 Supervised Clinical Experience XI (5 cr.)

RADIATION MEDICINE

Medical Physics, Ph.D.

Total credits for completion: 135

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C+” in all courses

Course Requirements

Students with an Earned M.S. in Medical Physics from OHSU:

- Medical Physics Coursework (61 cr.) - Up to 45 credits of previous M.S. in Medical Physics coursework can be applied to this requirement. The remaining credits of Medical Physics Coursework requirement may be fulfilled by MP 601 Research, MP 603 Dissertation, or other relevant coursework with program approval

- Research and Dissertation (74 cr.) - In addition to any Research and Dissertation credits completed in fulfillment of the Medical Physics Coursework requirement, students must complete an additional 74 credits of MP 601 Research and MP 603 Dissertation

Students without an Earned M.S. in Medical Physics from OHSU:

- Medical Physics Coursework (61 cr.) - Complete all requirements for the M.S. in Medical Physics
- Research and Dissertation (74 cr.) - Complete a total of 74 credits of MP 601 Research and MP 603 Dissertation

Non-course requirements

Qualifying examination

Doctoral dissertation and defense

Medical Physics, M.S.

Total credits for completion: 61

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C+” in all courses

Core Courses (50 cr.)

BSTA 525 Introduction to Biostatistics (4 cr.)

IPE 501 Foundations of Patient Safety & Interprofessional Practice (1 cr.)

MGRD 650 Practice & Ethics of Science (1 cr.)

MP 507 Seminar (3 cr. total)

MP 521 Radiological Anatomy & Physiology (3 cr.)

MP 531 Radiophysics (3 cr.)

MP 535 Radiation Shielding & External Dosimetry (3 cr.)

MP 536 Advanced Radiation Detection (3 cr.)

MP 538 External Beam Radiation Therapy/Radiopharmaceutical Therapy Dosimetry Lab (2 cr.)

MP 541 Diagnostic Imaging Physics I (3 cr.)

MP 542 Diagnostic Imaging Physics II (3 cr.)

MP 543 Advanced Diagnostic Imaging Physics (3 cr.)

MP 544 Nuclear Medicine Imaging (3 cr.)

MP 545 Diagnostic Imaging Physics Practicum (3 cr.)

MP 561 Radiation Therapy Physics I (3 cr.)

MP 562 Radiation Therapy Physics II (3 cr.)

MP 565 Radiation Therapy Physics Practicum (3 cr.)

MP 570 Radiation Biology (3 cr.)

Select One Track (4 cr.)

Radiation Therapy Physics Track

MP 563 Therapy Physics Lab I (2 cr.)

MP 564 Therapy Physics Lab II (2 cr.)

Diagnostic Imaging Physics Track

MP 546 Diagnostic Imaging Physics Lab I (2 cr.)

MP 547 Diagnostic Imaging Physics Lab II (2 cr.)

Thesis (7 cr.)

MP 503 Thesis; *students must be registered for a minimum of 1 credit of MP 503 each term while engaged in thesis work*

Non-course requirements

Thesis

Radiation Therapy, B.S.

See Requirements for the Bachelor of Science at OHSU for program requirements

RESEARCH DOCTORATES

Behavioral & Systems Neuroscience, Ph.D.

Total credits for completion: 135

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C+” in all courses

Core Courses (25 cr.)

BEST 607A Seminar: Issues in Behavioral Neuroscience (6 cr. total)

BEST 618 Behavioral Neuroscience (3 cr.)

BEST 642 Systems Neuroscience (4 cr.)

BMSC 620 Introduction to Biostatistics (3 cr.)

MGRD 650 Practice & Ethics of Science (1 cr.)

NEUS 624 Cellular Neurophysiology (4 cr.)

NEUS 625 Cellular & Molecular Neurobiology (4 cr.)

Elective Courses (6 cr.)

Select from the following:

- Any 600-level course with prefix BEST, CELL, CONJ, MGEN, MGRD, NEUS, or PHPH
- Other relevant 600-level courses with program approval

Research and Dissertation (104 cr.)

BEST 601 Research (20 cr. total)

BEST 603 Dissertation (84 cr. total)

Non-course requirements

Qualifying Examination

Doctoral dissertation and defense

Biomedical Engineering, Ph.D.

Total credits for completion: 135

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C+” in all courses

Core Courses (9 cr.)

BME 605 Readings in Biomedical Engineering (1 cr.)

BME 607 Biomedical Engineering Seminar (0.5 cr.; taken 6 times)

BME 608 Grant Writing & Qualifier Preparation (1 cr.)

Select one (3 cr.)

- BMSC 620 Introduction to Biostatistics (3 cr.)
- BMI 631 Probability & Statistical Inference (3 cr.)

MGRD 650 Practice & Ethics of Science (1 cr.)

Elective Courses (4 courses, 8-12 cr.)

Any relevant 500- or 600-level course that is 2 credits or more. Must be taken for a letter grade (A-F); courses offered Pass/No Pass only may be used with program approval.

Dissertation (54 cr.)

BME 603 PhD Dissertation Research (54 cr. total)

Additional Courses (60-64 cr.)

Additional Research: BME 601 Pre-qualifying PhD Research and/or BME 603 PhD Dissertation Research

Additional Electives: Any OHSU course at the 600-level (no restriction on number of credits or grading type)

Non-course requirements

Qualifying examination

Doctoral dissertation and defense

Biomedical Sciences, Ph.D.

Total credits for completion: 135

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C+” in all courses

Note: Per the Degree/Certificate Standards Policy, no more than 25% of credits may be taken at the 500 level

Core Courses (9-10 cr.)

Select one (3-4 cr.)

- BMSC 620 Introduction to Biostatistics (3 cr.; recommended)
- BMI 551/651 Bioinformatics & Computational Biomedicine II: Statistical Methods (4 cr.)

BMSC 664 Research Models & Methods (2 cr.)

BMSC 665 Scientific Logic (3 cr.)

MGRD 650 Practice & Ethics of Science (1 cr.)

Basic Biomedical Content (8 cr.)

Select two:

- BMSC 661 Structure & Function of Biological Molecules (3 cr.)
- BMSC 662 Genetic Mechanisms & Bioregulation (3 cr.)
- BMSC 663 Molecular & Cell Biology (3 cr.)

Select one:

- BMSC 666 Chemical Biology Innovators (2 cr.)
- BMSC 667 Principles of Physiology (2 cr.)
- BMSC 668 Molecular Biophysics & Structural Bioinformatics (2 cr.)
- BMSC 669 Fundamentals of Immunology (2 cr.)
- PHPH 618 Receptor Pharmacology (2 cr.)

Communication and Professional Development Courses (9 cr.)

Select from the following:

- BEST 607 Neuroscience & Career Pathways (1 cr.)
- BMI 670 Scientific writing & communication for informatics students (3 cr.)
- BMSC 610 Data Rigor & Reproducibility (1 cr.; recommended)
- BMSC 611 Introductory Scientific Writing (1 cr.; recommended)
- BMSC 612 Writing a Fellowship Proposal (1 cr.; recommended)
- BMSC 621 Searching & Information Management (1 cr.)
- BMSC 622 Scientific Posters (1 cr.)

- BMSC 630 Professional Practicum (variable cr.)
- BMSC 631 Professional Experience (variable cr.)
- BMSC 660 Short Scientific Talks (1 cr.; recommended)
- CONJ 640 Professional Development Fundamentals (1 cr.)
- HIP 530 Leadership Skills in Team Science (2 cr.)
- HIP 531 Project Management (2 cr.)
- MGRD 628 Teaching Practicum/Assistantship (variable cr.)
- NEUS 644 Racial Equity in Scientific Research & Beyond (3 cr.)

Journal Club (11 cr.)

Select from the following:

- BMSC 608 PBMS Journal Club Series (0.5 cr.)
- Any course with prefix BCMB, BEST, BME, BMI, BMSC, CANB, CELL, CONJ, MBIM, MGEN, NEUS, PHPH numbered 605A-F, 606, or 606A-B

Dissertation (27 cr.)

BMSC 603 Dissertation (27 cr. total)

Additional Courses (70-71 cr.)

Can be met by any of the following:

- BMSC 601 Research (variable cr.)
- BMSC 603 Dissertation (variable cr.)
- MGEN 611 Departmental Grand Rounds (1 cr.)
- MGRD 660 Fall Intersession: Writing a Review (variable cr.)
- Advanced Electives: Any 500- or 600-level course with prefix BCMB, BEHN, BEST, BME, BMI, BMSC, CANB, CELL, CONJ, HIP, MBIM, MGEN, NEUS, PHPH, including Seminar courses

Non-course requirements

Milestone tracking paper 1

Milestone tracking paper 2

Qualifying examination

Doctoral dissertation and defense

Clinical Psychology, Ph.D.

Total credits for completion: 177-179

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B” in all courses

Psychology Core Courses (42 cr.)

- CPSY 610 Abnormal Psychology & Psychopathology I (3 cr.)
- CPSY 611 Psychological Intervention I - Clinical Interview (3 cr.)
- CPSY 613 Psychological Assessment I - Adult (3 cr.)
- CPSY 614 Ethical & Legal Considerations in Psychology (1 cr.)
- CPSY 615 Cultural Considerations & Diversity (1 cr.)
- CPSY 616 Advanced Integrative Knowledge in Psychology I (3 cr.)
- CPSY 620 Abnormal Psychology & Psychopathology II - Advanced Issues (3 cr.)
- CPSY 621 Psychological Intervention EBT II - Adult (3 cr.)
- CPSY 623 Psychological Assessment II - Child (3 cr.)
- CPSY 626 Advanced Integrative Knowledge in Psychology II (3 cr.)
- CPSY 630/NURS 630 Advanced Measurement (3 cr.)
- CPSY 631 Psychological Intervention EBT III - Child (3 cr.)

CPSY 632 Psychology Research Seminar (1 cr.)

CPSY 640 Psychology Supervision & Consultation (1 cr.)

CPSY 641/NURS 641 Applied Health Statistics I: Descriptive, Associative & Comparative Statistics (4 cr.)

CPSY 642/NURS 642 Applied Health Statistics II: Generalized Linear Modeling (3 cr.)

CPSY 643 History & Systems of Psychology (1 cr.)

Other Required Courses (1 cr.)

IPE 601 Foundations of Patient Safety & Interprofessional Practice (1 cr.)

Internship (39-41 cr.)

CPSY 604 Psychology Internship (36 cr. total)

CPSY 650 Professional Development Seminar and Internship Preparation (3-5 cr. total)

Practicum (41 cr.)

CPSY 607 Psychology Practicum Seminar (8 cr. total)

CPSY 609 Psychology Clinical Practicum (33 cr. total)

Research and Dissertation (54 cr.)

CPSY 601 Psychology Graduate Research (27 cr. total)

CPSY 603 Psychology Research Dissertation (27 cr. total)

Non-course requirements

First Year Project

Qualifying examination

Doctoral dissertation and defense

Neuroscience, Ph.D.

Total credits for completion: 135

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B” in all core courses; minimum of “C+” in elective courses

Core Courses (26.5 cr.)

Select one (3 cr.)

- BMSC 620 Introduction to Biostatistics (3 cr.; preferred)
- BSTA 525 Introduction to Biostatistics (4 cr.)

MGRD 650 Practice & Ethics of Science (1 cr.)

NEUS 607 Neuroscience Seminar (6 cr. total)

NEUS 620 NGP Bootcamp (1.5 cr.)

NEUS 624 Cellular Neurophysiology (4 cr.)

NEUS 625 Cellular & Molecular Neurobiology (4 cr.)

NEUS 626 Neurobiology of Disease (3 cr.)

NEUS 627 Systems Neuroscience (4 cr.)

Elective Courses (12 cr.)

Select from the following:

- BEST 616 Neurobiology of Learning & Memory (2 cr.)
- BMSC 661 Structure & Function of Biological Molecules (3 cr.)
- BMSC 662 Genetic Mechanisms & Bioregulation (3 cr.)
- BMSC 663 Molecular & Cell Biology (3 cr.)
- BMSC 667 Principles of Physiology (2 cr.)

- BMSC 668 Molecular Biophysics & Structural Bioinformatics (2 cr.)
- Maximum of 3 cr. total of:
 - NEUS 606 Neuroscience Journal Club (variable cr.)
 - NEUS 606A Developmental Neuroscience Journal Club (1 cr.)
- NEUS 608 Professional Experience (variable cr.)
- NEUS 609 Professional Practicum (variable cr.)
- NEUS 610 Teaching Practicum & Assistantship (3 cr.)
- NEUS 614 Neurophysiology & Pharmacology of Pain (2 cr.)
- NEUS 637 Advanced Topics in Developmental Neuroscience (3 cr.)
- NEUS 639A Auditory System Topics (3 cr.)
- NEUS 639B Auditory System Essay (1 cr.)
- NEUS 641 G-Protein Coupled Receptors (2 cr.)
- NEUS 642 Python Programming (2 cr.)
- NEUS 644 Racial Equity in Scientific Research & Beyond (3 cr.)
- NEUS 646 Advanced Topics in Glial Cell Development and Function (3 cr.)
- PHPH 617 Drug Discovery and Development (2 cr.)
- Other relevant courses with program approval

Dissertation and Research (54 cr.)

NEUS 601 Research (27 cr. total)

NEUS 603 Dissertation (27 cr. total)

Additional Courses (42.5 cr.)

Can be met by any of the following:

- NEUS 601 Research (variable cr.)
- NEUS 603 Dissertation (variable cr.)
- Additional courses from the Elective Courses list
- Other relevant graduate courses with program approval

Non-course requirements

Qualifying examination

Doctoral dissertation and defense

Requirements for a Change in Degree Objective from Ph.D. to M.S.

A Master of Science (M.S.) degree may be awarded to students not completing the Ph.D. who fulfill the requirements below. GPA and grade requirements are the same as those for the corresponding Ph.D.

Behavioral & Systems Neuroscience, M.S. (45 cr.)

Requirements detailed in the Ph.D. (31 cr.)

- Core Courses (22 cr.)
- Elective Courses (9 cr.)

Master's Research and Thesis (14 cr.)

- Any combination of BEST 501, BEST 503, BEST 601, or BEST 603

Non-course requirements

- Thesis and defense

Biomedical Engineering, M.S. (45 cr.)

Requirements detailed in the Ph.D. (16-20 cr.)

- Core Courses (8 cr.: BME 608 not required)
- Elective Courses (8-12 cr.)

Master's Research and Thesis (25-29 cr.)

- Any combination of BME 503, BME 601, or BME 603

Non-course requirements

- Thesis and defense

Biomedical Sciences, M.S. (45 cr.)

Requirements detailed in the Ph.D. (35-36 cr.)

- Core Courses (9-10 cr.)
- Basic Biomedical Content (8 cr.)
- Communication and Professional Development Courses (9 cr.)

- Journal Club (only 9 cr. required for the M.S.)

Master's Research and Thesis (10-11 cr.)

- Any combination of MGEN 503, BMSC 601, and BMSC 603; at least 1 credit must be in MGEN 503 or BMSC 603

Non-course requirements

- Milestone tracking paper 1
- Milestone tracking paper 2
- Thesis and Defense

Clinical Psychology, M.S. (45 cr.)

Requirements detailed in the Ph.D. (45 cr.)

- Psychology Core Courses (42 cr.)
- Any other CPSY course(s) (3 cr.)

Non-course requirements

- Second year project

Neuroscience, M.S. (45.5 cr.)

Requirements detailed in the Ph.D. (32.5 cr.)

- Core Courses (26.5 cr.)
- Elective Courses (6 cr.)

Master's Research and Thesis (13 credits)

- Any combination of NEUS 503, NEUS 601, or NEUS 603

Non-course requirements

- Thesis and defense

JOINT PROGRAMS

Doctor of Physical Therapy, D.P.T.

This degree is jointly awarded by Oregon Institute of Technology. See Oregon Institute of Technology publications for program requirements.

Emergency Medical Services Management, B.S.

This degree is jointly awarded by Oregon Institute of Technology. See Oregon Institute of Technology publications for program requirements.

Medical Laboratory Science, B.S.

This degree is jointly awarded by Oregon Institute of Technology. See Oregon Institute of Technology publications for program requirements.

Emergency Medical Technology—Paramedic, A.A.S.

This degree is jointly awarded by Oregon Institute of Technology. See Oregon Institute of Technology publications for program requirements.

School of Medicine – Doctor of Medicine Program

Doctor of Medicine, M.D.

Total credits for completion: 234.5

GPA and grade requirements: Complete all courses with a grade of “Pass”

Foundations of Medicine (136.5 cr.)

BLHD 710 Blood & Host Defense (13 cr.)

CPR 710 Cardiopulmonary & Renal (27 cr.)

DEVH 710 Developing Human (12 cr.)

FUND 710 Fundamentals (18 cr.)

HODI 710 Hormones & Digestion (18 cr.)

IPE 701 Foundations of Patient Safety & Interprofessional Practice (1 cr.)

NSF 710 Nervous System & Function (22 cr.)

PREC 721 Preceptorship (1 cr.)

PREC 722 Preceptorship (1 cr.)

PREC 723 Preceptorship (1 cr.)

PREC 724 Preceptorship (1.5 cr. total)

Preparation for USMLE Step 1 (5 cr.)

- PREP 700 Preparation for Step 1 Independent Study (5 cr.)

Alternatively, take one of the following by advisement:

- JCON 602B Basic Science Review B (5 cr.)
- JCON 602C Basic Science Review C (11 cr.)

SBM 710 Skin, Bones & Musculature (13 cr.)

SCHI 701A Intro to Scholarly Project 1 (0.5 cr.)

SCHI 701B Intro to Scholarly Project 2 (0.25 cr.)

SCHI 701C Intro to Scholarly Project 3 (0.25 cr.)

TRAN 702 Transition to Medical School (2 cr.)

Clinical Experience (64 cr.)

CPX 702 Clinical Performance Examination (1 cr.; alt CPX 702R)

FAMP 730 Family Medicine Core Clinical Experience (6 cr.; alt. FAMP 730R)

Alternatively, take one of the following

- FAMP 731A Family Medicine Continuity Core (12 cr.; alt. FAMP 731RA)
- FAMP 731B Family Medicine Continuity Core - Rural - Immersive (18 cr.; alt. FAMP 731RB)
- FAMP 731C Family Medicine Continuity Core - Rural (12 cr.; alt. FAMP 731RC)

IMED 730 Internal Medicine Core Clinical Experience (6 cr.; alt. IMED 730R)

Alternatively, take one of the following

- IMED 731A Internal Medicine Core Hospital Based (12 cr.; alt. IMED 731RA)
- IMED 731B Internal Medicine Continuity Core Inpatient/Ambulatory (12 cr.; alt. IMED 731RB)

INTS 770 Intersession – Assessment/Testing (7 cr.)

- INTS 770A Family Medicine Testing Intersession (1 cr.; alt. INTS 770RA)
- INTS 770B Internal Medicine Testing Intersession (1 cr.; alt INTS 770RB)
- INTS 770C Neurology Testing Intersession (1 cr.; alt INTS 770RC)
- INTS 770D OBGYN Testing Intersession (1 cr.; alt INTS 770RD)
- INTS 770E Pediatrics Testing Intersession (1 cr.; alt INTS 770RE)

- INTS 770F Psychiatry Testing Intersession (1 cr.; alt INTS 770RF)
- INTS 770G Surgery Testing Intersession (1 cr.; alt INTS 770RG)

Select two of the following (4 cr.)

- INTS 771 Intersession: Cancer (2 cr.; alt. INTS 771R)
- INTS 772 Intersession: Cognitive Impairment (2 cr.; alt. INTS 772R)
- INTS 773 Intersession: Infection (2 cr.; alt. INTS 773R)
- INTS 774 Intersession: Pain (2 cr.; alt. INTS 774R)
- INTS 771CV Intersession: Covid (2 cr.; alt. INTS 771CVR)
- INTS 771DA Intersession: (Dis)ability (2 cr.; alt. INTS 771DR)

NEUR 730 Neurology Core Clinical Experience (6 cr.; alt. NEUR 730R)

OBGY 730 OBGYN Core Clinical Experience (6 cr.; alt. OBGY 730R)

PEDI 730 Pediatrics Core Clinical Experience (6 cr.; alt. PEDI 730R)

PSYC 730 Psychiatry Core Clinical Experience (6 cr.; alt. PSYC 730R)

Select one of the following:

- SCHI 702 Scholarly Project Work (6 cr.; alt. SCHI 702R OR SCHI 702Z)
- SCHI 704A-C Physician-Scientist Experience I-III (6 cr.; alt SCHI 704AR-CR)
- SCHI 704M MCR Scholarly Project Coursework (6 cr.; alt SCHI 704RM)

SCHI 703 Scholarly Project: Capstone (1 cr.; alt. SCHI 703R)

SURG 730 Surgery Core Clinical Experience (6 cr.; alt. SURG 730R)

TRAN 703 Transition to Clinical Experience (2 cr.; alt TRAN 703R)

TRAN 704 Transition to Residency (1 cr.; alt. TRAN 704R)

Elective Courses (34 cr.)

Students must complete a minimum of 22 credits of Clinical Experience Electives. The remaining 12 credits may be selected from clinical and/or non-clinical courses.

Clinical Experience Electives (22 cr. minimum)

- Any MD course numbered 709, 710, 713, or 741, except those listed as a requirement or a non-clinical elective

Additional Electives (12 cr.)

- Any MD course numbered 709, 710, 713, or 741, except those listed as a requirement or a non-clinical elective
- Any course from *non-clinical electives* list below
- Any course from the *pre-clinical electives* list below (maximum of 4 credits)

Non-clinical Electives

- Any MD course numbered 701, 704, 705, 711, 745, or 799
- Any MD course numbered 702 (scholarly project work) beyond the 6 required credits
- ANAT 710A Anatomy Teaching Elective
- ETOX 709A Medical Toxicology
- ETOX 710A Medical Toxicology
- FAMP 710AI Principles of American Indian & Alaska Native Health: Intro to History, Culture, and Health Systems
- Any INTS course numbered 771, 772, 773, 774 beyond the 4 required credits
- IS 709A OHSU Global SE Asia Chang Rai
- MINF 709A Introduction to Biomedical Informatics and Artificial Intelligence

- RADT 710RE Radiation Oncology-Remote

Pre-clinical Electives

- FAMP 705NA Introduction to Native Health
- FAMP 705H Labor & Delivery Skills
- FAMP 705IH Immigration Health
- GMED 705AM Introduction to Addiction Medicine
- GMED 705L Living with a Life-Threatening Illness
- GMED 705MA Introduction to Street Medicine
- GSTR 705Q Introduction to Community Health
- JCON 705DA Disability awareness and skills development for medical students
- JCON 705RC Structural Competency Foundations Leadership-2
- JCON 705SP Latino Medical Student Association- Introduction to Medical Spanish
- JCON 705ST Latino Medical Student Association- Spanish Elective Teaching Assistant
- MULT 709C Multidisciplinary Care of the Underserved – Bridges Collaborative Care Clinic
- OBGY 705SE Taking a Better Sexual History
- ORTH 705A Musculoskeletal: Skeletal Anatomy
- ORTH 705C Developing Clinical Clerkship Skills
- UNI 702 Conversations in Global Health

Rural Requirement

Rural Requirement: At least one clinical experience (required or elective) must be taken at a designated rural site. The following course numbers always meet the rural requirement. Other courses may also meet the rural requirement depending on the placement.

- EMED 709CB Rural Emergency Medicine – Coos Bay (4 cr.)
- EMED 709CM Rural Emergency Medicine Columbia Memorial, Astoria (4 cr.)
- EMED 709SC Rural Emergency Medicine-St Charles (variable cr.)
- EMED 709SS Rural Emergency Medicine Providence Seaside (4 cr.)
- FAMP 709L Rural Sub-I Family Medicine - Campus for Rural Health - Klamath Falls (variable cr.)
- FAMP 709MA Family Medicine Sub-I-OHSU/St. Charles Health System- Madras Rural Track Program (6 cr.)
- FAMP 709RB Roseburg Family Medicine Sub-I (6 cr.)
- FAMP 709TR Rural Focused Clinical Elective (variable cr.)
- FAMP 731B Family Medicine Continuity Core - Rural - Immersive (18 cr.; alt. FAMP 731RB)
- FAMP 731C Family Medicine Continuity Core - Rural (variable cr.; alt. FAMP 731RC)
- FAMP 741R Rural Family Medicine Continuity (variable cr.)
- FAMP 741TH Tribal Health Immersion Continuity (variable cr.)
- GMED 709CB Rural Internal Medicine - South Coast (variable cr.)
- GMED 709RC Rural Outpatient Internal Medicine Elective (4 cr.)
- GMED 741CB Rural Internal Medicine Continuity - South Coast (variable cr.)
- MULT 705A Quality Improvement in Rural Healthcare - Campus for Rural Health - South Coast (variable cr.)
- MULT 705C Quality Improvement in Rural Healthcare - Campus for Rural Health - Klamath Falls (variable cr.)
- MULT 709B Rural Multidisciplinary Hospital Medicine - Campus for Rural Health - South Coast (4 cr.)
- OFKF 741F Oregon First Klamath Falls 2 (15 cr.)

- OFKF 741S Oregon First Klamath Falls 4 (variable cr.)
- OFKF 741U Oregon First Klamath Falls 1 (5 cr.)
- OFKF 741W Oregon First Klamath Falls 3 (12 cr.)
- ORTH 709CB Rural Orthopaedics - South Coast (4 cr.)
- ORTH 741LG Rural Continuity Orthopedics-Sports Medicine (8 cr.)
- PEDI 709CB Rural Pediatrics - South Coast (variable cr.)
- PEDI 709KF Rural Pediatrics - Campus for Rural Health Klamath Falls (variable cr.)
- PEDI 709LG Rural Pediatrics - Eastern OR (variable cr.)
- PMR 709GB Rural Physical Medicine and Rehabilitation - Gold Beach/Brookings (4 cr.)
- RSP 741 Oregon AHEC Scholars Program (variable cr.)
- SURG 709LG General Surgery – La Grande (Rural) (6 cr.)
- SURG 709M Rural General Surg- Gold Beach (variable cr.)
- SURG 741LG General Surgery Continuity – La Grande (Rural) (12 cr.)

Continuity Requirement

Continuity Clinical Experience: A minimum of 8 credits of required or elective courses must be numbered 731 or 741. Other clinical courses may be used to fulfill the continuity requirement with program approval.

Non-course requirements

- USMLE Step 1: Passing Score
- USMLE Step 2 Clinical Knowledge (CK): Passing Score
- Workplace-Based Assessments (WBAs): Complete a minimum of 100 assessments of which 51 must be completed by attending physicians. A minimum of 2 WBAs must be completed in each Entrustable Professional Activity.
- Attainment of all OHSU SoM Undergraduate Medical Education Competencies

Doctor of Medicine, M.D., Oral and Maxillofacial Surgery Residents

Total credits for completion: 85

GPA and grade requirements: Complete all courses with a grade of “Pass”

Foundations of Medicine (20 cr.)

FUND 710 Fundamentals (18 cr.)

TRAN 702 Transition to Medical School (2 cr.)

Clinical Experience (49 cr.)

TRAN 703 Transition to Clinical Experience (2 cr.)

FAMP 730 Family Medicine Core Clinical Experience (6 cr.; alt. FAMP 730R)

IMED 730 Internal Medicine Core Clinical Experience (6 cr.; alt. IMED 730R)

NEUR 730 Neurology Core Clinical Experience (6 cr.; alt. NEUR 730R)

OBGY 730 OBGYN Core Clinical Experience (6 cr.; alt. OBGY 730R)

PEDI 730 Pediatrics Core Clinical Experience (6 cr.; alt. PEDI 730R)

PSYC 730 Psychiatry Core Clinical Experience (6 cr.; alt. PSYC 730R)

INTS 770 Intersession – Assessment/Testing (6 cr.)

- INTS 770A Family Medicine Testing Intersession (1 cr.; alt. INTS 770RA)
- INTS 770B Internal Medicine Testing Intersession (1 cr.; alt. INTS 770RB)
- INTS 770C Neurology Testing Intersession (1 cr.; alt. INTS 770RC)

- INTS 770D OBGYN Testing Intercession (1 cr.; alt INTS 770RD)
- INTS 770E Pediatrics Testing Intercession (1 cr.; alt INTS 770RE)
- INTS 770F Psychiatry Testing Intercession (1 cr.; alt INTS 770RF)

CPX 702 Clinical Performance Examination (1 cr.)

Select two of the following (4 cr.)

- INTS 771 Intercession: Cancer (2 cr.; alt. INTS 771R)
- INTS 772 Intercession: Cognitive Impairment (2 cr.; alt. INTS 772R)
- INTS 773 Intercession: Infection (2 cr.; alt. INTS 773R)
- INTS 774 Intercession: Pain (2 cr.; alt. INTS 774R)
- INTS 771CV Intercession: Covid (2 cr.; alt. INTS 771CVR)
- INTS 771DA Intercession: (Dis)ability (2 cr.; alt. INTS 771DR)

Elective Courses (8 cr.)

Surgery Clinical Experience (4 cr.)

- CSUR 709A Cardiothoracic Surgery Sub-Internship - OHSU
- PLAS 709A Plastic & Reconstructive Surgery - OHSU
- PLAS 709B Plastic Surgery - Community
- PLAS 709C Plastic & Reconstructive Surgery Sub-Internship - OHSU
- PLAS 709S Comprehensive Breast Surgery – St. Vincent
- PSUR 709A Pediatric Surgery – OHSU
- PSUR 709B Pediatric Surgery Sub-Internship - DCH
- SURG 709B –Complex Abdominal Surgery Sub-I
- SURG 709D –Surgical Oncology Sub-I
- SURG 709G Vascular Surgery Sub-Internship - OHSU
- SURG 709GE Vascular Surgery - OHSU
- SURG 709GS Community-Based Surgical Care
- SURG 709GV Vascular Surgery - VAMC
- SURG 709H General Surgery - Springfield
- SURG 709K Rural Gen Surg – Grants Pass
- SURG 709L General and Burn Surgery Sub-Internship – Emanuel
- SURG 709LG General Surgery – La Grande (Rural)
- SURG 709M Rural General Surg- Gold Beach
- SURG 709PA General & Hepatobiliary Surgery – Providence Portland
- SURG 709R Abdominal Organ Transplant - OHSU
- SURG 709RE Foregut & Metabolic Bariatric Surgery Sub-I
- SURG 709S General Surgery Sub-Internship - St. Vincent
- SURG 709T Surgery-Trauma at Emanuel
- SURG 709UC Colorectal Surgery Sub-I
- SURG 709UH Abdominal Wall Surgery Sub-I
- SURG 709V General Surgery - VAMC
- OTOL 709A Sub-I Medical/Surgical Otolaryngology
- OTOL 709B Sub-I Microvascular Reconstruction and Rehabilitation
- OTOL 709E Facial Plastic Reconstructive Surgery
- NSUR 709A Neurosurgery
- NSUR 709C Pediatric Neurosurgery

Clinical Experience Electives (4 cr.)

- Any MD course numbered 709, 710, or 713, except those listed as a requirement or a non-clinical elective under the regular MD program
- FAMP 705NA Introduction to Native Health

Rural Requirement

- Not required

Continuity Requirement (8 cr.)

- OMAS 741A OMS Continuity Sub-Internship (12 cr.; only 8 cr. needed to meet the requirement)

Non-course requirements

- USMLE Step 1: Passing Score
- USMLE Step 2 Clinical Knowledge (CK): Passing Score
- Workplace-Based Assessments (WBAs): Complete a minimum of 100 assessments of which 51 must be completed by attending physicians. A minimum of 2 WBAs must be completed in each Entrustable Professional Activity.
- Attainment of all OHSU SoM Undergraduate Medical Education Competencies

Doctor of Medicine and Master of Public Health (M.D./M.P.H.)

Dual degree students earn both the M.D. and M.P.H. degrees according to the requirements described in this section.

Requirements for the M.D. (227.5 cr.)

Dual degree students complete all requirements for the M.D. listed in the “Doctor of Medicine, M.D.” section of this Guide except the following:

- SCHI 701A Intro to Scholarly Project 1 (0.5 cr.)
- SCHI 701B Intro to Scholarly Project 2 (0.25 cr.)
- SCHI 701C Intro to Scholarly Project 3 (0.25 cr.)
- SCHI 702 Scholarly Project Work (6 cr.)

No classes fulfilling the M.P.H. can be applied to the M.D.

Requirements for the M.P.H. (60 or 62 cr.)

Dual degree students complete all requirements for the M.P.H. listed in this Guide for one of the following programs:

- Epidemiology, M.P.H. (60 cr.)
- Health Management and Policy, M.P.H. (62 cr.)

No classes fulfilling the M.D. can be applied to the M.P.H.

Doctor of Medicine and Doctor of Philosophy (M.D./Ph.D.)

Dual degree students earn both the M.D. and Ph.D. degrees according to the requirements described in this section.

Requirements for the M.D. (227.5 cr.)

Dual degree students complete all requirements for the M.D. listed in the “Doctor of Medicine, M.D.” section of this Guide with the following modifications:

The Scholarly Project classes are not required:

- SCHI 701A Intro to Scholarly Project 1 (0.5 cr.)
- SCHI 701B Intro to Scholarly Project 2 (0.25 cr.)
- SCHI 701C Intro to Scholarly Project 3 (0.25 cr.)
- SCHI 702 Scholarly Project Work (6 cr.)

Clinical Experience Electives

- JCON 725 MD/PhD Clinical & Translational Research Clerkship (8 cr.) fulfills both 8 credits of Clinical Experience Electives and the Continuity Requirement.

Rural Requirement

- Not required

Continuity Requirement

- Students take JCON 725 MD/PhD Clinical & Translational Research Clerkship (8 cr.), which fulfills both 8 credits of Clinical Experience Electives and the Continuity Requirement.

No classes fulfilling the Ph.D. can be applied to the M.D.

Requirements for the Ph.D. (135 cr.)

Dual degree students complete a Ph.D. in one of the following fields:

- Behavioral & Systems Neuroscience
- Bioinformatics & Computational Biomedicine
- Biomedical Engineering
- Biomedical Sciences
- Health & Clinical Informatics
- Neuroscience

No classes fulfilling the M.D. can be applied to the Ph.D.

For the Ph.D. in Behavioral & Systems Neuroscience, Ph.D. in Bioinformatics & Computational Biomedicine, Ph.D. in Health & Clinical Informatics, and Ph.D. in Neuroscience:

- No modifications are made to the Ph.D. requirements for dual degree students

For the Ph.D. in Biomedical Engineering:

- Dual degree students complete all requirements as listed in the “Biomedical Engineering, Ph.D.” section of the Guide except:
 - The “Elective Courses” requirement is reduced to 2 courses (4-6 cr.), and
 - The “Additional Courses” requirement is increased to 66-68 cr.

For the Ph.D. in Biomedical Sciences, dual degree students complete the Ph.D. curriculum detailed below.

Total credits for completion: 135

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C+” in all courses

Core Courses (6 cr.)

BMSC 664 Research Models & Methods (2 cr.)

BMSC 665 Scientific Logic (3 cr.)

MGRD 650 Practice & Ethics of Science (1 cr.)

Basic Biomedical Content (3 cr.)

Select one course:

- BMSC 661 Structure & Function of Biological Molecules (3 cr.)
- BMSC 662 Genetic Mechanisms & Bioregulation (3 cr.)
- BMSC 663 Molecular & Cell Biology (3 cr.)

Journal Club (11 cr.)

CONJ 606MD MD-PhD Journal Club (11 cr. total)

MD/PhD Joint Courses (1 cr.)

CONJ 640 Professional Development Fundamentals (1 cr.)

Dissertation (27 cr.)

BMSC 603 Dissertation (27 cr. total)

Additional Courses (87 cr.)

Can be met by any of the following.

- BMSC 601 Research or CONJ 601 Research Rotation (variable cr.)
- BMSC 603 Dissertation (variable cr.)
- MGEN 611 Departmental Grand Rounds (1 cr.)
- Advanced Electives: Any 500- or 600-level course with prefix BCMB, BEHN, BEST, BME, BMI, BMSC, CANB, CELL, CONJ, MBIM, MGEN, NEUS, PHPH, including Seminar courses

Non-course requirements

Milestone tracking paper 1

Milestone tracking paper 2

Qualifying examination

Doctoral dissertation and defense

School of Nursing

Doctoral Degrees

Doctor of Nursing Practice (D.N.P.)

- Adult Gerontology Acute Care Nurse Practitioner
- Family Nurse Practitioner
- Nurse Anesthesia
- Nurse-Midwifery
- Nursing (Post-Masters)
- Pediatric Primary & Acute Nurse Practitioner
- Psychiatric Mental Health Nurse Practitioner

Doctor of Philosophy (Ph.D.)

- Nursing

Master's Degrees

Master of Nursing (M.N.)

- Health Systems & Organizational Leadership
- Nursing Education

Bachelor's Degrees

Bachelor of Science (B.S.)

- Nursing

Adult Gerontology Acute Care Nurse Practitioner, D.N.P.

Total credits for completion: 105-106

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of "C" in all courses

Note: No more than 3 credits of electives may be taken at the 500 level

Advanced Practice Core (14 cr.)

NURS 515A Advanced Physiology & Pathophysiology I (3 cr.)

NURS 515B Advanced Physiology & Pathophysiology II (3 cr.)

NURS 517A Advanced Health & Physical Assessment (3 cr.)

NURS 517B Advanced Health & Physical Assessment Lab (1 cr.)

NURS 519 Principles of Pharmacology & Prescribing for Advanced Practice Registered Nurses (4 cr.)

D.N.P. Core (37 cr.)

NURS 703A DNP Project Planning (2 cr.)

NURS 703B DNP Project (5 cr.)

NURS 720 Roles, Responsibilities & Concepts for Advanced Practice Nursing (3 cr.)

NURS 721 Ethics for Advanced Practice Nursing (3 cr.)

NURS 722 Informatics & Technology for Healthcare (3 cr.)

NURS 723 Critical Appraisal of Evidence (3 cr.)

NURS 724 Application of Evidence to Clinical Practice (3 cr.)

NURS 725 Improvement Science (3 cr.)

NURS 726 Health Care Economics & Finance (3 cr.)

NURS 727 Leadership & Health Systems (3 cr.)

NURS 728 Health Policy & Population Health (3 cr.)

Core Elective Course (3 cr.)

- Any course at the 500-, 600- or 700-level may be used to meet this requirement

AGACNP Specialty Core (54 cr.)

ACNP 701 Advanced Adult-Gerontology Pharmacology (2 cr.)

ACNP 702 Diagnostic Reasoning in Adult-Gerontology Acute Care (3 cr.)

ACNP 703 Management of Common Urgent Care Problems in Adult-Gerontology Acute Care (2 cr.)

ACNP 740L Acute Care Diagnostic & Clinical Lab I (1 cr.)

ACNP 741 Management I for Adult-Gerontology Acute Care (3 cr.)

ACNP 741L Acute Care Diagnostic & Clinical Lab II (1 cr.)

ACNP 742 Management II for Adult-Gerontology Acute Care (4 cr.)

ACNP 742L Acute Care Diagnostic & Clinical Lab III (1 cr.)

ACNP 743 Management III for Adult-Gerontology Acute Care (4 cr.)

ACNP 743L Acute Care Diagnostic & Clinical Lab IV (1 cr.)

ACNP 744 Management IV for Adult-Gerontology Acute Care (4 cr.)

ACNP 744L Acute Care Diagnostic & Clinical Lab V (1 cr.)

ACNP 745 Management V for Adult-Gerontology Acute Care (4 cr.)

ACNP 791 Practicum in Adult-Gerontology Acute Care I (2 cr.)

ACNP 792 Practicum in Adult-Gerontology Acute Care II (3 cr.)

ACNP 793 Practicum in Adult-Gerontology Acute Care III (4 cr.)

ACNP 794 Practicum in Adult-Gerontology Acute Care IV (4 cr.)

ACNP 795 Practicum in Adult-Gerontology Acute Care V (4 cr.)

ACNP 796 Practicum in Adult-Gerontology Acute Care VI (4 cr.)

Specialty Elective Course (2 cr.)

- Any course at the 600-level or higher may be used to meet this requirement

Interprofessional Education (0–1 cr.)

Required for students who did not complete the 1-credit IPE foundations course while seeking a previous undergraduate or graduate degree at OHSU

IPE 701 Foundations of Patient Safety & Interprofessional Practice (1 cr.)

Family Nurse Practitioner, D.N.P.

Total credits for completion: 114-115

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C” in all courses

Advanced Practice Core (14 cr.)

NURS 515A Advanced Physiology & Pathophysiology I (3 cr.)

NURS 515B Advanced Physiology & Pathophysiology II (3 cr.)

NURS 517A Advanced Health & Physical Assessment (3 cr.)

NURS 517B Advanced Health & Physical Assessment Lab (1 cr.)

NURS 519 Principles of Pharmacology & Prescribing for Advanced Practice Registered Nurses (4 cr.)

D.N.P. Core (37 cr.)

NURS 703A DNP Project Planning (2 cr.)

NURS 703B DNP Project (5 cr.)

NURS 720 Roles, Responsibilities & Concepts for Advanced Practice Nursing (3 cr.)

NURS 721 Ethics for Advanced Practice Nursing (3 cr.)
NURS 722 Informatics & Technology for Healthcare (3 cr.)
NURS 723 Critical Appraisal of Evidence (3 cr.)
NURS 724 Application of Evidence to Clinical Practice (3 cr.)
NURS 725 Improvement Science (3 cr.)
NURS 726 Health Care Economics & Finance (3 cr.)
NURS 727 Leadership & Health Systems (3 cr.)
NURS 728 Health Policy & Population Health (3 cr.)
Core Elective Course (3 cr.)

- Any course at the 500-, 600- or 700-level may be used to meet this requirement

Family Nurse Practitioner Specialty Core (59 cr.)

ACNP 740L Acute Care Diagnostic & Clinical Lab I (1 cr.)
FNP 714 Health Promotion & Health Protection (3 cr.)
FNP 730 Professional Development for the Family Nurse Practitioner (2 cr.)
FNP 740 Applied Clinical Reasoning (3 cr.)
FNP 741 Family Primary Care Management I (4 cr.)
FNP 742 Family Primary Care Management II (3 cr.)
FNP 743 Family Primary Care Management III (3 cr.)
FNP 744 Family Primary Care Management IV (3 cr.)
FNP 782 Diagnostic & Procedures II (3 cr.)
FNP 791 Practicum in Family Primary Care Management I (3 cr.)
FNP 792 Practicum in Family Primary Care Management II (3 cr.)
FNP 793 Practicum in Family Primary Care Management III (3 cr.)
FNP 794 Practicum in Family Primary Care Management IV (3 cr.)
FNP 795 Practicum in Family Primary Care Management V (4 cr.)
FNP 796 Practicum in Family Primary Care Management VI (4 cr.)
FNP 797 Practicum in Family Primary Care Management VII (5 cr.)
NMID 750 Reproductive Health Care Management (3 cr.)
PNP 742 Evaluation & Management: Pediatric Primary Care (4 cr.)
PNP 745 Pediatric Pharmacology (2 cr.)

Specialty Elective (3 cr.)

- Any course at the 600- or 700-level may be used to meet this requirement

Interprofessional Education (1-2 cr.)

- IPE 701 Foundations of Patient Safety & Interprofessional Practice (1 cr.; required for students who did not complete the 1-credit IPE foundations course while seeking a previous undergraduate or graduate degree at OHSU)
- IPE 712 Rural Health Equity: Community, Collaboration and Action (1 cr.)

Nurse Anesthesia, D.N.P.

Total credits for completion: 129

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C” in all courses

Advanced Practice Core (14 cr.)

NURS 515A Advanced Physiology & Pathophysiology I (3 cr.)

NURS 515B Advanced Physiology & Pathophysiology II (3 cr.)
NURS 517A Advanced Health & Physical Assessment (3 cr.)
NURS 517B Advanced Health & Physical Assessment Lab (1 cr.)
NURS 519 Principles of Pharmacology & Prescribing for Advanced Practice Registered Nurses (4 cr.)

D.N.P. Core (37 cr.)

NURS 703A DNP Project Planning (2 cr.)
NURS 703B DNP Project (5 cr.)
NURS 720 Roles, Responsibilities & Concepts for Advanced Practice Nursing (3 cr.)
NURS 721 Ethics for Advanced Practice Nursing (3 cr.)
NURS 722 Informatics & Technology for Healthcare (3 cr.)
NURS 723 Critical Appraisal of Evidence (3 cr.)
NURS 724 Application of Evidence to Clinical Practice (3 cr.)
NURS 725 Improvement Science (3 cr.)
NURS 726 Health Care Economics & Finance (3 cr.)
NURS 727 Leadership & Health Systems (3 cr.)
NURS 728 Health Policy & Population Health (3 cr.)
Core Elective Course (3 cr.)

- Any course at the 500-, 600- or 700-level may be used to meet this requirement

Nurse Anesthesia Specialty Core (76 cr.)

NAP 730 Scientific Underpinnings for Nurse Anesthesia Practice (1 cr.)
NAP 731 Anesthesia Pharmacology I (4 cr.)
NAP 732 Anesthesia Pharmacology II (2 cr.)
NAP 733 Fundamentals of Anesthesia Practice I (4 cr.)
NAP 734 Fundamentals of Anesthesia Practice II (4 cr.)
NAP 735 Anesthesia for Surgical Procedures (4 cr.)
NAP 736 Anesthesia for Advanced Procedures (3 cr.)
NAP 737 Anesthesia for Specialty Practice (3 cr.)
NAP 738 Anesthesia & Co-Existing Disease (2 cr.)
NAP 739 Regional Anesthesia Techniques (2 cr.)
NAP 740 Nurse Anesthesia Seminar (5 cr. total)
NAP 790A Clinical Practicum in Nurse Anesthesia (12 cr. total)
NAP 790B Advanced Clinical Practicum in Nurse Anesthesia (30 cr. total)

Interprofessional Education (2 cr.)

IPE 711 Interprofessional Pain Management (2 cr.)

Nurse-Midwifery, D.N.P.

Total credits for completion: 115-116

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C” in all courses

Advanced Practice Core (14 cr.)

NURS 515A Advanced Physiology & Pathophysiology I (3 cr.)
NURS 515B Advanced Physiology & Pathophysiology II (3 cr.)
NURS 517A Advanced Health & Physical Assessment (3 cr.)
NURS 517B Advanced Health & Physical Assessment Lab (1 cr.)

NURS 519 Principles of Pharmacology & Prescribing for Advanced Practice Registered Nurses (4 cr.)

D.N.P. Core (37 cr.)

NURS 703A DNP Project Planning (2 cr.)

NURS 703B DNP Project (5 cr.)

NURS 720 Roles, Responsibilities & Concepts for Advanced Practice Nursing (3 cr.)

NURS 721 Ethics for Advanced Practice Nursing (3 cr.)

NURS 722 Informatics & Technology for Healthcare (3 cr.)

NURS 723 Critical Appraisal of Evidence (3 cr.)

NURS 724 Application of Evidence to Clinical Practice (3 cr.)

NURS 725 Improvement Science (3 cr.)

NURS 726 Health Care Economics & Finance (3 cr.)

NURS 727 Leadership & Health Systems (3 cr.)

NURS 728 Health Policy & Population Health (3 cr.)

Core Elective Course (3 cr.)

- Any course at the 500-, 600- or 700-level may be used to meet this requirement

Nurse-Midwifery Specialty Core (64 cr.)

NMID 730 Fundamentals of Teaching Nurse-Midwifery Students (3 cr.)

NMID 731 Fundamentals of Obstetric & Gynecologic Ultrasound (2 cr.)

NMID 740 Perinatal Physiology (3 cr.)

NMID 741 Foundations of Midwifery Care During the Reproductive Cycle (2 cr.)

NMID 742 Primary Care for Nurse-Midwives (4 cr.)

NMID 743 Perinatal Pharmacology (2 cr.)

NMID 750 Reproductive Health Care Management (3 cr.)

NMID 751 Antepartum & Postpartum Management I (3 cr.)

NMID 752 Antepartum & Postpartum Management II (2 cr.)

NMID 753 Nurse-Midwifery Management in the Intrapartum Period (4 cr.)

NMID 754 Advanced Reproductive Health Care Management (3 cr.)

NMID 755 Management of the Newborn (2 cr.)

NMID 791 Practicum in Antepartum & Postpartum Management (2 cr.)

NMID 792 Practicum in Nurse-Midwifery Management of the Intrapartum Period (2 cr.)

NMID 793 Practicum in Nurse-Midwifery Management I (3 cr.)

NMID 794 Practicum in Nurse-Midwifery Management II (2 cr.)

NMID 795 Practicum in Nurse-Midwifery Management III (2 cr.)

NMID 796 Practicum in Nurse-Midwifery Management IV (2 cr.)

NMID 797 Practicum in Nurse-Midwifery Management V (2 cr.)

NMID 798 Practicum in Nurse-Midwifery Management VI (3 cr.)

NMID 799 Advanced Practicum in Nurse-Midwifery Management (9 cr.)

NMID 790G Practicum in Advanced Women's Health Care (2 cr.)

NMID 790P Primary Care Practicum for Nurse-Midwives (2 cr.)

Interprofessional Education (0–1 cr.)

Required for students who did not complete the 1-credit IPE foundations course while seeking a previous undergraduate or graduate degree at OHSU

IPE 701 Foundations of Patient Safety & Interprofessional Practice (1 cr.)

Nursing, D.N.P. (Post-Masters)

Total credits for completion: 46

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C” in all courses

D.N.P. Core (40 cr.)

NURS 703A DNP Project Planning (2 cr.)
NURS 703B DNP Project (5 cr.)
NURS 721 Ethics for Advanced Practice Nursing (3 cr.)
NURS 722 Informatics & Technology for Healthcare (3 cr.)
NURS 723 Critical Appraisal of Evidence (3 cr.)
NURS 724 Application of Evidence to Clinical Practice (3 cr.)
NURS 725 Improvement Science (3 cr.)
NURS 726 Health Care Economics & Finance (3 cr.)
NURS 727 Leadership & Health Systems (3 cr.)
NURS 728 Health Policy & Population Health (3 cr.)
NURS 790 DNP Practicum (variable cr.; 9 cr. total)

Elective Courses (6 cr.)

- Any course at the 600- or 700-level may be used to meet this requirement

Pediatric Primary & Acute Nurse Practitioner, D.N.P.

Total credits for completion: 110-111

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C” in all courses

Advanced Practice Core (14 cr.)

NURS 515A Advanced Physiology & Pathophysiology I (3 cr.)
NURS 515B Advanced Physiology & Pathophysiology II (3 cr.)
NURS 517A Advanced Health & Physical Assessment (3 cr.)
NURS 517B Advanced Health & Physical Assessment Lab (1 cr.)
NURS 519 Principles of Pharmacology & Prescribing for Advanced Practice Registered Nurses (4 cr.)

D.N.P. Core (36 cr.)

NURS 703A DNP Project Planning (2 cr.)
NURS 703B DNP Project (5 cr.)
NURS 720 Roles, Responsibilities & Concepts for Advanced Practice Nursing (3 cr.)
NURS 721 Ethics for Advanced Practice Nursing (3 cr.)
NURS 722 Informatics & Technology for Healthcare (3 cr.)
NURS 723 Critical Appraisal of Evidence (3 cr.)
NURS 724 Application of Evidence to Clinical Practice (3 cr.)
NURS 725 Improvement Science (3 cr.)
NURS 726 Health Care Economics & Finance (3 cr.)
NURS 727 Leadership & Health Systems (3 cr.)
NURS 728 Health Policy & Population Health (3 cr.)
Core Elective Course (2 cr.)

- Any course at the 500-, 600- or 700-level may be used to meet this requirement

Pediatric Primary & Acute Nurse Practitioner Specialty Core (57 cr.)

NMID 755 Management of the Newborn (2 cr.)
PNP 740 The Science of Child Development (3 cr.)
PNP 741 Pediatric Assessment & Diagnostics I (3 cr.)
PNP 742 Evaluation & Management: Pediatric Primary Care (4 cr.)
PNP 743 Evaluation & Management: Common Pediatric Conditions (4 cr.)
PNP 745 Pediatric Pharmacology (2 cr.)
PNP 746 Evaluation & Management: Chronic/Specialty Care (3 cr.)
PNP 747 Pediatric Psychopharmacology & Interventions (2 cr.)
PNP 748 Evaluation & Management: Pediatric Acute/Complex Care (4 cr.)
PNP 749 Pediatric Assessment & Diagnostics II (3 cr.)
PNP 760 Pediatric Clinical Simulated Experiences I (1 cr.)
PNP 761 Pediatric Clinical Simulated Experiences II (1 cr.)
PNP 790 PNP Clinical Practicum – Primary Care I (3 cr.)
PNP 791 PNP Clinical Practicum – Primary Care II (3 cr.)
PNP 792 PNP Clinical Practicum – Chronic/Specialty Care (3 cr.)
PNP 793 PNP Clinical Practicum – Acute Care I (3 cr.)
PNP 794 PNP Clinical Practicum – Acute Care II (4 cr.)
PNP 795 PNP Clinical Practicum – Immersion I (4 cr.)
PNP 796 PNP Clinical Practicum – Immersion II (5 cr.)

Specialty Elective (3 cr.)

Select one (3 cr.)

- NMID 750 Reproductive Health Care Management (3 cr.)
- PNP 744 Adolescent Health (3 cr.)

Interprofessional Education (0–1 cr.)

Required for students who did not complete the 1-credit IPE foundations course while seeking a previous undergraduate or graduate degree at OHSU

IPE 701 Foundations of Patient Safety & Interprofessional Practice (1 cr.)

Psychiatric Mental Health Nurse Practitioner, D.N.P.

Total credits for completion: 110-111

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C” in all courses

Advanced Practice Core (14 cr.)

NURS 515A Advanced Physiology & Pathophysiology I (3 cr.)
NURS 515B Advanced Physiology & Pathophysiology II (3 cr.)
NURS 517A Advanced Health & Physical Assessment (3 cr.)
NURS 517B Advanced Health & Physical Assessment Lab (1 cr.)
NURS 519 Principles of Pharmacology & Prescribing for Advanced Practice Registered Nurses (4 cr.)

D.N.P. Core (37 cr.)

NURS 703A DNP Project Planning (2 cr.)
NURS 703B DNP Project (5 cr.)
NURS 720 Roles, Responsibilities & Concepts for Advanced Practice Nursing (3 cr.)
NURS 721 Ethics for Advanced Practice Nursing (3 cr.)
NURS 722 Informatics & Technology for Healthcare (3 cr.)

NURS 723 Critical Appraisal of Evidence (3 cr.)
 NURS 724 Application of Evidence to Clinical Practice (3 cr.)
 NURS 725 Improvement Science (3 cr.)
 NURS 726 Health Care Economics & Finance (3 cr.)
 NURS 727 Leadership & Health Systems (3 cr.)
 NURS 728 Health Policy & Population Health (3 cr.)
 Core Elective Course (3 cr.)

- Any nursing course at the 500-, 600- or 700-level may be used to meet this requirement

Psychiatric Mental Health Nurse Practitioner Specialty Core (59 cr.)

PMH 752 Psychiatric Interviewing (3 cr.)
 PMH 755 Professional Practice for PMHNP (3 cr. total)
 PMH 760 Mental Health & Illness Foundations (1 cr.)
 PMH 761 PMHNP Clinical Practice Foundations (2 cr.)
 PMH 762 Therapy Foundations (1 cr.)
 PMH 774 Psychopharmacology Across the Lifespan for PMHNP (6 cr.)
 Practicum for PMHNP (25 cr.)
 PMH 790K Adults (variable cr.; 4 cr. minimum)
 PMH 790KC Children & Adolescents (variable cr.; 4 cr. minimum)
 PMH 775 Advanced Intervention and Management for PMHNP (6 cr. total)
 PMH 781A Assessment & Diagnosis-PMHNP: Adult (4 cr.)
 PMH 781B Assessment & Diagnosis-PMHNP: Child/Adolescent (2 cr.)
 PMH 783 Adult Psychotherapy (3 cr.)
 PMH 785 Child & Family Therapies (3 cr.)

Interprofessional Education (0–1 cr.)

Required for students who did not complete the 1-credit IPE foundations course while seeking a previous undergraduate or graduate degree at OHSU

IPE 701 Foundations of Patient Safety & Interprofessional Practice (1 cr.)

Nursing, Ph.D.

Total credits for completion: 91-92 for students with a previous Masters; 103-104 for students without a previous Masters

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C” in all courses

Ph.D. Core (47 cr.)

NURS 601 Research Practicum (2 cr.)
 NURS 609 Practicum in Teaching (2 cr.)
 NURS 613 Research Design & Methods (3 cr.)
 NURS 614 Philosophical & Theoretical Foundations for Health Science Research (3 cr.)
 NURS 620 Responsible Conduct of Research & Scholarship (2 cr.)
 NURS 630 Advanced Measurement (3 cr.)
 NURS 632 Mixed Methods Research (3 cr.)
 NURS 633 Pro seminar (6 cr. total)
 NURS 635 Literature Review, Synthesis & Inquiry (2 cr.)
 NURS 636 Inquiry & Proposal Development (2 cr.)
 NURS 641 Applied Health Statistics I: Descriptive, Associative & Comparative Statistics (4 cr.)

NURS 642 Applied Health Statistics II: Generalized Linear Modeling (3 cr.)

NURS 644 Qualitative Research I (3 cr.)

NURS 671 Introduction to Health Equity Research (3 cr.)

NURS 673 Introduction to Integrative Biobehavioral Research (3 cr.)

NURS 675 Policy & Leadership (3 cr.)

Specialty Elective Courses (9-10 cr.)

Select one (3-4 cr.)

- NURS 643 Applied Health Statistics III: Longitudinal Design & Analysis (3 cr.)
- NURS 645 Qualitative Research II (4 cr.)

Select one group (6 cr.)

Applied Health Equity Group

NURS 672A Applied Health Equity Research (3 cr.)

NURS 672B Applied Health Equity Research (3 cr.)

Applied Integrative Biobehavioral Group

NURS 674A Applied Integrative Biobehavioral Research (3 cr.)

NURS 674B Applied Integrative Biobehavioral Research (3 cr.)

Dissertation (27 cr.)

NURS 603 Dissertation (variable cr.; 24 cr. total)

NURS 607D Dissertation Seminar (3 cr. total)

Elective Courses (8 cr. with a previous masters; 20 cr. with no previous masters)

- Any course at the 500-level or higher may be used to meet this requirement

Non-course requirements

Doctoral dissertation and defense

Health Systems & Organizational Leadership, M.N.

Total credits for completion: 47

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C” in all courses

Core Courses (7 cr.)

NURS 508 Concepts for Advanced Nursing Practice: Ethics (2 cr.)

NURS 513 Concepts of Advanced Nursing Knowledge & Leadership (2 cr.)

NURS 524 Evaluating Evidence (3 cr.)

Health Systems Core (14 cr.)

NURS 509MC Practicum/Capstone: Leading and Managing Change (variable cr.; 8 cr. total)

NURS 512 Leadership and Organizational Behavior (3 cr.)

NURS 580 Budget & Finance for the Nurse Leader (3 cr.)

Organizational Leadership Specialty Core (23 cr.)

HSOL 540 Creating Healthy Systems and Nurse Wellbeing (3 cr.)

HSOL 541 Navigating Complexity and Chaos (3 cr.)

HSOL 542 Healthcare Operations: The intersection of quality, regulations, law, and ethics (3 cr.)

HSOL 543 Health Policy and Economics (3 cr.)

HSOL 544 Project Management: Leading projects to successful outcomes (3 cr.)

HSOL 545 Leading Interprofessional Patient Centered Teams (2 cr.)

HSOL 546 Organizational Communication (3 cr.)

NURS 546A/746A Clarifying Racism – Institutional Racism (1 cr.)

NURS 546B/746B Clarifying Racism – Foundational Concepts of Bias (1 cr.)

NURS 546C/746C Clarifying Racism – Unequal Treatment (1 cr.)

Elective Course (3 cr.)

Select one (3 cr.)

- BMI 510 Introduction to Biomedical Informatics and Artificial Intelligence (3 cr.)
- BMI 517 Organizational Behavior & Management (3 cr.)

Nursing Education, M.N.

Total credits for completion: 46

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “C” in all courses

Foundational Courses (7 cr.)

NURS 513 Concepts of Advanced Nursing Knowledge & Leadership (2 cr.)

NURS 524 Evaluating Evidence (3 cr.)

NURS 559/659 Understanding Social Determinants of Health (2 cr.)

Nursing Education Core (23. Cr.)

NURS 509AA/609AA Practicum in Teaching (3 cr.)

NURS 538/638 Emerging Trends in Nursing Education Curriculum (2 cr.)

NURS 554A Inclusive Education Practices 1 (2 cr.)

NURS 554B Inclusive Education Practices 2 (1 cr.)

NURS 561/661 Best Practices in Teaching Nursing (4 cr.)

NURS 562/662 Learning Assessment in Nursing (2 cr.)

NURS 563/663 Simulation in Nursing Education (3 cr.)

NURS 564/664 Clinical Teaching (3 cr.)

NURS 591/691 Online Teaching (3 cr.)

Direct Care Nursing Courses (10 cr.)

NURS 510 Health Assessment & Health Promotion in Vulnerable Populations (3 cr.)

NURS 511 Current Issues in Pharmacology: A Pathophysiologic Approach (4 cr.)

NURS 551/651 Complex Health Conditions (3 cr.)

Direct Care Specialty Courses: Select one focus area (6 cr.)

Adult Gerontology Focus

NURS 552/652 Understanding & Intervening in Common Mental Health Problems of Elders (3 cr.)

NURS 509GG Focus in Adult Geriatric Health (3 cr.)

Psychiatric Mental Health Focus

NURS 552/652 Understanding & Intervening in Common Mental Health Problems of Elders (3 cr.)

NURS 509BB Focus in Psychiatric Mental Health (3 cr.)

Community Health Focus

NURS 547/647 Introduction to Epidemiology & Population Health (3 cr.)

NURS 509A Focus in Population Health (3 cr.)

Nursing, B.S.

See Requirements for the Bachelor of Science at OHSU for program requirements

School of Public Health

The OHSU-PSU School of Public Health operates jointly with Portland State University.

Doctoral Degrees

Doctor of Philosophy (Ph.D.)

- Community Health
- Epidemiology
- Health Systems & Policy

Master's Degrees

Master of Public Health (M.P.H.)

- Biostatistics
- Environmental Systems & Human Health
- Epidemiology
- Health Management & Policy
- Health Promotion
- Public Health Practice

Master of Science (M.S.)

- Biostatistics

Certificates

Graduate Certificate

- Biostatistics
- Public Health

Undergraduate Degrees and Certificates

Joint Programs Awarded by Portland State University

- Applied Health & Fitness, B.A., B.S.
- Public Health Studies, B.A., B.S.

Community Health, Ph.D.

Total credits for completion: 108

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Community Health Core (36 cr.)

HSMP 671 Health Policy (3 cr.)

HSMP 673 Values & Ethics in Health (3 cr.)

HSMP 681 Population Health: Policy & Practice Implications (3 cr.)

PHE 512/612 Principles of Health Behavior (3 cr.)

PHE 622 Health & Social Inequalities (3 cr.)

PHE 626 Teaching & Learning in Health Promotion & Social Work (3 cr.)

PHE 632 Developmental Origins of Health & Human Disease Epidemiology (3 cr.)

PUBH 600 Essentials of Doctoral Training (3 cr.)

Select one (3 cr.)

- ESHH 519 Environmental Health in a Changing World (3 cr.)
- ESHH 612 Global & Planetary Health Concepts (3 cr.)

Select three (9 cr.)

- CPH 621 Social Determinants of Health (3 cr.)
- CPH 622 Communicating Public Health Data (3 cr.)
- CPH 631 Social Justice and Public Health (3 cr.)
- CPH 640 Systems Thinking for Public Health (3 cr.)
- PHE 510/610 Special Topics (3 cr.)
- PHE 541 Media Advocacy & Public Health (3 cr.)
- PHE 546 Urban & Community Health (3 cr.)
- PHE 555 Decolonizing Public Health Research: Epidemiology, Epistemology, & Embodiment (3 cr.)

Methods Core (20 cr.)

BSTA 611 Estimation & Hypothesis Testing for Applied Biostatistics (4 cr.)

BSTA 612 Linear Models (4 cr.)

CPH 636 Community Based Participatory Research (3 cr.)

EPI 640 Research Proposal and Design (3 cr.)

PHE620 Qualitative Research Design (3 cr.)

PHE 634 Social Epidemiology Methods & Theory (3 cr.)

Doctoral Seminar (6 cr.)

PHE 623 Doctoral Seminar in Health Research (1 cr.; taken 6 times)

Elective Courses (19 cr.)

Course selected with program approval. Must include at least 3 credits at the 600 level. May include independent research credits with approval of faculty advisor and program director.

- Methods Electives (6 cr.)
- Community Health Electives (8 cr.)
- Other Electives (5 cr.)

Students who matriculate without a prior MPH degree must take the following courses, which will be applied to the electives:

- BSTA 525 Introduction to Biostatistics (4 cr.) [Methods elective]
- EPI 612 Epidemiology I (4 cr.) [Other electives]
- PHE 511 Foundations of Public Health (3 cr.) [Other electives]

Dissertation (27 cr.)

PHE 603 Dissertation (27 cr. total)

Non-course requirements

Comprehensive examination

Doctoral dissertation and defense

Epidemiology, Ph.D.

Total credits for completion: 108

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Epidemiology Core (32 cr.)

EPI 613 Epidemiology II (4 cr.)

EPI 614 Epidemiology III (4 cr.)

EPI 615 Epidemiology Doctoral Seminar (2 cr.)

EPI 629 Doctoral Seminar in Causal Inference Methods (3 cr.)

EPI 630 Critical Assessment of Epidemiologic Literature (1 cr.; take twice)

EPI 636 Epidemiological Data Analysis & Interpretation (4 cr.)

EPI 640 Research Proposal and Design (3 cr.)

EPI 668 Infectious Disease Epidemiology (2 cr.)

EPI 676 Chronic Disease Epidemiology (2 cr.)

PHE 626 Teaching & Learning in Health Promotion & Social Work (3 cr.)

PUBH 600 Essentials of Doctoral Training (3 cr.)

Biostatistics Core (14 cr.)

Select one (3 cr.)

- BSTA 514 Statistical Analysis of Time-to-Event Data (3 cr.)
- BSTA 519 Applied Longitudinal Data Analysis (3 cr.)

BSTA 515 Data Management & Analysis in SAS (3 cr.)

BSTA 612 Linear Models (4 cr.)*

BSTA 613 Categorical Data Analysis (4 cr.)*

** Students who have completed similar coursework may substitute an elective for this course by program approval*

Public Health Core (16–18 cr.)

Select one (1–3 cr.)

- MGRD 650 Practice & Ethics of Science (1 cr.)
- HSMP 673 Values & Ethics in Health (3 cr.)

CPH 622 Communicating Public Health Data (3 cr.)

ESHH 511/611 Concepts of Environmental Health (3 cr.)*

HSMP 574/674 Health Systems Organization (3 cr.)*

PHE 512/612 Principles of Health Behavior (3 cr.)*

PHE 622 Health & Social Inequalities (3 cr.)

** Students who have completed similar coursework may substitute an elective for this course by program approval*

Elective Courses (17–19 cr.)

Must be taken for a letter grade unless offered Pass/No Pass only

Quantitative Methods Electives (12 cr.)

- BSTA 504 Topics in Biostatistics (variable cr.)
- BSTA 514 Statistical Analysis of Time-to-Event Data (if not applied to Biostatistics core; 3 cr.)
- BSTA 516 Design & Analysis of Surveys (3 cr.)

- BSTA 517 Statistical Methods in Clinical Trials (3 cr.)
- BSTA 519 Applied Longitudinal Data Analysis (if not applied to Biostatistics core; 3 cr.)
- BSTA 522 Statistical Learning & Data Science (3 cr.)
- BSTA 550 Introduction to Probability (3 cr.)
- BSTA 551 Theory of Statistical Inference (4 cr.)
- ESHH 615 Geographic Information Systems for Public Health (3 cr.)
- EPI 650 Mentored Epidemiology Research (6 cr.)
- GEOG 588 Geographic Information Systems (4 cr.)
- GEOG 597 Advanced Spatial Quantitative Analysis (4 cr.)
- HIP 509 Systematic Reviews Practicum (2 cr.)
- HIP 527 Systematic Reviews (2 cr.)
- PHE 634 Social Epidemiology Methods & Theory (3 cr.)
- PSY 610 Hierarchical Linear Modeling for Longitudinal Data Analysis (4 cr.)
- PSY 623 Structural Equation Modeling (4 cr.)
- PSY 626 Multilevel Regression (4 cr.)

Other Electives (5-7 cr.)

- BMI 610 Introduction to Biomedical Informatics and Artificial Intelligence (3 cr.)
- BMI 612 Clinical Information Systems (3 cr.)
- BMI 637 Healthcare Quality (3 cr.)
- CPH 621 Social Determinants of Health (3 cr.)
- CPH 627 Applied Epidemiology (3 cr.)
- CPH 631 Social Justice and Public Health (3 cr.)
- CPH 636 Community Based Participatory Research (3 cr.)
- CPH 638 Public Health Program Evaluation (3 cr.)
- EPI 556/656 HIV/AIDS Epidemiology (3 cr.)
- EPI 605 Reading and Conference (variable cr.)
- EPI 621 Injury & Violence Prevention (3 cr.)
- EPI 650 Mentored Epidemiology Research (variable cr.)
- HIP 509 Systematic Reviews Practicum (2 cr.)
- HIP 527 Systematic Reviews (2 cr.)
- HIP 530 Leadership Skills in Team Science (2 cr.)
- HSMP 671 Health Policy (3 cr.)
- HSMP 677 Health Care Law & Regulation (3 cr.)
- HSMP 681 Population Health: Policy & Practice Implications (3 cr.)
- HSMP 682 Oregon Health Policy: Lessons for State & National Reform (3 cr.)
- HSMP 683 Economics of Health Systems & Policy (3 cr.)
- HSMP 684 Social Policy & Public Health (3 cr.)
- HSMP 686 Introduction to Health Economics (3 cr.)
- PHE 540 Mass Media & Health (3 cr.)
- PHE 541 Media Advocacy & Public Health (3 cr.)
- PHE 632 Developmental Origins of Health & Human Disease Epidemiology (3 cr.)
- Any other 600-level course offered in the School of Public Health
- Other relevant courses with program approval

Dissertation (27 cr.)

EPI 603 Epidemiology Dissertation (27 cr.)

Non-course requirements

Comprehensive examination

Doctoral dissertation and defense

Health Systems & Policy, Ph.D.

Total credits for completion: 108

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Core Courses (27 cr.)

EPI 640 Research Proposal and Design (3 cr.)

HSMP 642 Organizational Theory & Health Systems (3 cr.)

HSMP 671 Health Policy (3 cr.)

HSMP 673 Values & Ethics in Health (3 cr.)

HSMP 674 Health Systems Organization (3 cr.)

HSMP 677 Health Care Law & Regulation (3 cr.)

HSMP 686 Introduction to Health Economics (3 cr.)

PHE 626 Teaching & Learning in Health Promotion & Social Work (3 cr.)

PUBH 600 Essentials of Doctoral Training (3 cr.)

Policy Courses (18 cr. minimum)

HSMP 675 Advanced Health Policy (3 cr.)

PAP 616 Policy Process (3 cr.)

Select one (3–4 cr.)

- HSMP 683 Economics of Health Systems & Policy (3 cr.)
- USP 615 Economic Analysis of Public Policy (4 cr.)

Elective Courses (9 cr.)

- AGE 657 National Long-term Care Policy (3 cr.)
- CPH 631 Social Justice and Public Health (3 cr.)
- HSMP 682 Oregon Health Policy: Lessons for State & National Reform (3 cr.)
- HSMP 684 Social Policy & Public Health (3 cr.)
- HSMP 685 Implementation Science in Health Systems (3 cr.)
- SW 525 Poverty: Policies & Programs (3 cr.)
- Other relevant courses with program approval

Health Systems Courses (12 cr.)

HSMP 681 Population Health: Policy & Practice Implications (3 cr.)

Select one (3 cr.)

- CPH 621 Social Determinants of Health (3 cr.)
- PHE 622 Health & Social Inequalities (3 cr.)

Elective courses (6 cr.)

- CPH 640 Systems Thinking for Public Health (3 cr.)
- PHE 612 Principles of Health Behavior (3 cr.)
- Relevant courses with program approval

Research Design and Methods Courses (18 cr. minimum)

HSMP 689 Research Design in Health Services (3 cr.)

Select one (3–4 cr.)

- NURS 632 Mixed Methods Research (3 cr.)
- SOC 638 Integrating Qualitative & Quantitative Methods (4 cr.)

Select one (3–4 cr.)

- ANTH 512 Ethnographic Methods (4 cr.)
- PHE 620 Qualitative Research Design (3 cr.)
- SOC 637 Qualitative Data Analysis (4 cr.)
- USP 683 Qualitative Analysis (4 cr.)

Elective Courses (7-9 cr.)

- BSTA 516 Design & Analysis of Surveys (3 cr.)
- ESHH 615 Geographic Information Systems for Public Health (3 cr.)
- CPH 636 Community Based Participatory Research (3 cr.)
- EPI 612 Epidemiology I (4 cr.)
- EPI 636 Epidemiological Data Analysis & Interpretation (4 cr.)
- HSMP 588 Program Evaluation & Management in Health Services (3 cr.)
- LING 516 Discourse Analysis (4 cr.)
- PHE 624 Philosophy through Power Calculations: Writing Methods Sections for Research Proposals (3 cr.)
- PSY 621 Univariate Quantitative Methods (5 cr.)
- PSY 625 Categorical Data Analysis (4 cr.)
- PSY 626 Multilevel Regression (4 cr.)
- SOC 695 Advanced Quantitative Methods (4 cr.)
- SW 553 Research for Racial Justice (3 cr.)
- SYSC 510 Seminar: Special Topics (4 cr.)
- SYSC 513 Holistic Strategies for Problem Solving (4 cr.)
- SYSC 514 System Dynamics (4 cr.)
- SYSC 518 System Sustainability & Organizational Resilience (4 cr.)
- SYSC 540 Introduction to Network Science (4 cr.)
- SYSC 625 Agent Based Simulation (4 cr.)
- SYSC 651 Discrete Multivariate Modeling (4 cr.)
- USP 634 Data Analysis I (4 cr.)
- USP 654 Data Analysis II (4 cr.)
- Other relevant courses with program approval

Doctoral Seminar (6 cr.)

HSMP 607 Doctoral Seminar (1 cr.; taken 6 times)

Dissertation (27 cr.)

HSMP 603 Dissertation (by arrangement)

Continuous registration with a minimum of 1 credit of HSMP 603 is required while engaged in dissertation research

Non-course requirements

Comprehensive examination
 Doctoral dissertation and defense

Biostatistics, M.P.H.

Total credits for completion: 60

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Core Required Courses (17 cr.)

BSTA 511 Estimation & Hypothesis Testing for Applied Biostatistics (4 cr.)
 EPI 512 Epidemiology I (4 cr.)
 ESHH 511 Concepts of Environmental Health (3 cr.)
 HSMP 574 Health Systems Organization (3 cr.)
 PHE 512 Principles of Health Behavior (3 cr.)

Program Required Courses (28–31 cr.)

BSTA 512 Linear Models (4 cr.)
 BSTA 513 Categorical Data Analysis (4 cr.)
 BSTA 515 Data Management & Analysis in SAS (3 cr.)
 BSTA 516 Design & Analysis of Surveys (3 cr.)
 BSTA 519 Applied Longitudinal Data Analysis (3 cr.)
 HSMP 573 Values & Ethics in Health (3 cr.)
 EPI 513 Epidemiology II (4 cr.)
 EPI 566 Current Issues in Public Health (2 cr.)
 UNI 504 Qualitative Methods for Health Professionals (2 cr.)

By permission, students may substitute (4-5 cr.)

- Any 500-level course with prefix IPE or UNI other than IPE 501 (1-2 cr.) *and*
- PHE 520 Qualitative Research Design (3 cr.) *or* HSMP 588 Program Evaluation & Management in Health Services (3 cr.)

Culminating Experience (5 cr.)

BSTA 509PE Practice Experience (4 cr.)
 BSTA 502IP Integrative Project (1 cr.)

Elective Courses (7–10 cr.)

Select from the following:

- BSTA 500 Reading & Research in Biostatistics (1-3 cr.)
- BSTA 504 Topics in Biostatistics (1-3 cr.)
- BSTA 514 Statistical Analysis of Time-to-Event Data (3 cr.)
- BSTA 517 Statistical Methods in Clinical Trials (3 cr.)
- BSTA 522 Statistical Learning & Data Science (3 cr.)
- BSTA 523 Design of Experiments: Statistical Principles of Research Design & Analysis (3 cr.)
- BSTA 526 R programming for Health Data Science (3 cr.)
- BSTA 550 Introduction to Probability (3 cr.)
- BSTA 551 Theory of Statistical Inference (4 cr.)
- EPI 514 Epidemiology III (4 cr.)
- PHE 519 Introduction to the Etiology of Disease (3 cr.)

- Other relevant courses with program approval

Environmental Systems & Human Health, M.P.H.

Total credits for completion: 60

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Core Courses (17 cr.)

BSTA 525 Introduction to Biostatistics (4 cr.)
 EPI 512 Epidemiology I (4 cr.)
 ESHH 511 Concepts of Environmental Health (3 cr.)
 HSMP 574 Health Systems Organization (3 cr.)
 PHE 512 Principles of Health Behavior (3 cr.)

Program Core Courses (26 cr.)

Select one (3 cr.)

- CPH 522 Communicating Public Health Data (3 cr.)
- ESHH 515 Geographic Information Systems for Public Health (3 cr.)

ESHH 519 Environmental Health in a Changing World (3 cr.)
 ESHH 521 Occupational Health (4 cr.)
 ESHH 529 Environmental Toxicology & Risk Assessment (4 cr.)
 ESHH 530 Environmental and Occupational Health Chemistry (4 cr.)
 ESHH 532 Ecological Public Health (3 cr.)
 HSMP 573 Values & Ethics in Health (3 cr.)
 UNI 504 Qualitative Methods for Health Professionals (2 cr.)

Culminating Experience (5 cr.)

ESHH 509PE Practice Experience (4 cr.)
 ESHH 502IP Integrative Project (1 cr.)

Elective Courses (12 cr.)

Select from the following:

- Any 500-level course with prefix BSTA, CPH, EPI, ESHH, HSMP, or PHE (*except* BSTA 511, BSTA 525, CPH 535, EPI 512, ESHH 511, HSMP 573, HSMP 574, or PHE 512)
- Any 500-level course with prefix ESM (*except* ESM 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, ESM 599)
- Any 500-level course with prefix GEOG (*except* GEOG 507, GEOG 510)
- Any 500-level course with prefix EMCR
- PA 575 Foundations of Collaborative Governance (3 cr.)
- PSY 510 Selected Topics (variable cr.)
- PSY 550 Occupational Health Psychology (4 cr.)
- Other relevant courses with program approval

Epidemiology, M.P.H.

Total credits for completion: 60

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Core Required Courses (17 cr.)

Select one (4 cr.)

- BSTA 511 Estimation & Hypothesis Testing for Applied Biostatistics (4 cr.)
- EPI 525 Biostatistics I (4 cr.)

EPI 512 Epidemiology I (4 cr.)

ESHH 511 Concepts of Environmental Health (3 cr.)

HSMP 574 Health Systems Organization (3 cr.)

PHE 512 Principles of Health Behavior (3 cr.)

Program Required Courses (27-30 cr.)

BSTA 512 Linear Models (4 cr.)

BSTA 513 Categorical Data Analysis (4 cr.)

EPI 513 Epidemiology II (4 cr.)

EPI 514 Epidemiology III (4 cr.)

EPI 536 Epidemiological Data Analysis & Interpretation (4 cr.)

EPI 566 Current Issues in Public Health (2 cr.)

Select one (3 cr.)

- CPH 535 Professionalism, Ethics & Systems Thinking in Public Health (3 cr.)
- HSMP 573 Values & Ethics in Health (3 cr.)

UNI 504 Qualitative Methods for Health Professionals (2 cr.)

By permission, students may substitute (4-5 cr.)

- Any 500-level course with prefix IPE or UNI other than IPE 501 (1-2 cr.) *and*
- PHE 520 Qualitative Research Design (3 cr.) *or* HSMP 588 Program Evaluation & Management in Health Services (3 cr.)

Culminating Experience (5 cr.)

EPI 502IP Integrative Project (1 cr.)

EPI 504PE Practice Experience (4 cr.)

Elective Courses (8-11 cr.)

Select from the following:

- Any 500-level course with prefix BSTA, CPH, EPI, ESHH, HSMP, or PHE (*except* BSTA 511, BSTA 525, CPH 535, EPI 512, ESHH 511, HSMP 573, HSMP 574, or PHE 512)
- Other relevant courses with program approval

Health Management & Policy, M.P.H.

Total credits for completion: 62

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Core Required Courses (17 cr.)

BSTA 525 Introduction to Biostatistics (4 cr.)
 EPI 512 Epidemiology I (4 cr.)
 ESHH 511 Concepts of Environmental Health (3 cr.)
 HSMP 574 Health Systems Organization (3 cr.)
 PHE 512 Principles of Health Behavior (3 cr.)

Program Required Courses (25-26 cr.)

Interprofessional requirement (1-2 cr.)

- Any 500-level course with prefix IPE or UNI other than IPE 501

HSMP 541 Organizational Behavior in Health Service Organizations (3 cr.)
 HSMP 571 Health Policy (3 cr.)
 HSMP 573 Values & Ethics in Health (3 cr.)
 HSMP 576 Strategic Management of Health Care Organizations (3 cr.)
 HSMP 577 Health Care Law & Regulation (3 cr.)
 HSMP 586 Introduction to Health Economics (3 cr.)
 HSMP 587 Financial Management of Health Services (3 cr.)
 HSMP 588 Program Evaluation & Management in Health Services (3 cr.)

Culminating Experience (5 cr.)

HSMP 502IP Integrative Project (1 cr.)
 HSMP 509PE Practice Experience (4 cr.)

Elective Courses (14-15 cr.)

Select from the following:

- AGE 557 National Long-term Care Policy (3 cr.)
- HSMP 544 Leadership & Governance in Health Services (3 cr.)
- HSMP 575 Advanced Health Policy (3 cr.)
- HSMP 578 Performance Improvement in Health Services (3 cr.)
- HSMP 579 Health Information Technology & Systems Management (3 cr.)
- HSMP 580 Health Services Human Resources Management (3 cr.)
- HSMP 581 Population Health: Policy & Practice Implications (3 cr.)
- HSMP 582 Oregon Health Policy: Lessons for State & National Reform (3 cr.)
- HSMP 583 Economics of Health Systems & Policy (3 cr.)
- HSMP 584 Social Policy & Public Health (3 cr.)
- HSMP 585 Implementation Science in Health Systems (3 cr.)
- HSMP 589 Research Design in Health Services (3 cr.)
- PA 525 Grantwriting for Nonprofit Organizations (3 cr.)
- PA 549 Cross-cultural Communication in the Public Sector (3 cr.)
- PA 554 Policy Analysis Research (3 cr.)
- PA 556 Public Contract Management (3 cr.)
- PA 558 Managing Public Projects & Programs: From Local to Global (3 cr.)
- PA 575 Foundations of Collaborative Governance (3 cr.)
- Any other 500-level course with prefix BSTA, CPH, EPI, ESHH, HSMP, or PHE (*except* BSTA 511, BSTA 525, CPH 535, EPI 512, ESHH 511, HSMP 573, HSMP 574, or PHE 512) with program approval
- Other relevant courses with program approval

Health Promotion, M.P.H.

Total credits for completion: 60

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Core Required Courses (17 cr.)

BSTA 525 Introduction to Biostatistics (4 cr.)
 EPI 512 Epidemiology I (4 cr.)
 ESHH 511 Concepts of Environmental Health (3 cr.)
 HSMP 574 Health Systems Organization (3 cr.)
 PHE 512 Principles of Health Behavior (3 cr.)

Program Required Courses (29 cr.)

Interprofessional requirement (1 cr.)

- Any 500-level course with prefix IPE or UNI other than IPE 501

PHE 511 Foundations of Public Health (3 cr.)
 PHE 517 Community Organizing (3 cr.)
 PHE 519 Introduction to the Etiology of Disease (3 cr.)
 PHE 520 Qualitative Research Design (3 cr.)
 PHE 521 Quantitative Research Design & Analysis (3 cr.)
 Select one (3 cr.)

- PHE 540 Mass Media & Health (3 cr.)
- PHE 541 Media Advocacy & Public Health (3 cr.)

PHE 550 Program Planning (4 cr.)
 HSMP 573 Values & Ethics in Health (3 cr.)
 HSMP 588 Program Evaluation & Management in Health Services (3 cr.)

Culminating Experience (5 cr.)

PHE 502IP Integrative Project (1 cr.)
 PHE 504PE Practice Experience (4 cr.)

Elective Courses (9 cr.)

- Any 500-level course with prefix BSTA, CPH, EPI, ESHH, HSMP, or PHE (*except* BSTA 511, BSTA 525, CPH 535, EPI 512, ESHH 511, HSMP 573, HSMP 574, or PHE 512)
- Other relevant courses with program approval

Public Health Practice, M.P.H.

Total credits for completion: 56

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Core Courses (17 cr.)

BSTA 525 Introduction to Biostatistics (4 cr.)
 EPI 512 Epidemiology I (4 cr.)

ESHH 511 Concepts of Environmental Health (3 cr.)

HSMP 574 Health Systems Organization (3 cr.)

PHE 512 Principles of Health Behavior (3 cr.)

Program Courses (25 cr.)

Interprofessional requirement (1 cr.)

- Any 500-level course with prefix IPE or UNI other than IPE 501

Select one (3 cr.)

- CPH 511 Introduction to Research Design (3 cr.)
- PHE 520 Qualitative Research Design (3 cr.)

CPH 521 Social Determinants of Health (3 cr.)

CPH 522 Communicating Public Health Data (3 cr.)

CPH 528 Management Practice & Quality Improvement in Health Care & Public Health Organizations (3 cr.)

CPH 535 Professionalism, Ethics & Systems Thinking in Public Health (3 cr.)

CPH 536 Community Based Participatory Research (3 cr.)

Select one (3 cr.)

- CPH 538 Public Health Program Evaluation (3 cr.)
- HSMP 588 Program Evaluation & Management in Health Services (3 cr.)

CPH 550 Public Health Program Planning (3 cr.)

Culminating Experience (5 cr.)

CPH 502IP Integrative Project (1 cr.)

CPH 509PE Practice Experience (4 cr.)

Elective Courses (9 cr.)

Select from the following:

- Any 500-level course with prefix BSTA, CPH, EPI, ESHH, HSMP, or PHE (*except* BSTA 511, BSTA 525, CPH 535, EPI 512, ESHH 511, HSMP 573, HSMP 574, or PHE 512)
- Other relevant courses with program approval

Biostatistics, M.S.

Total credits for completion: 54

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Required Courses (38 cr.)

BSTA 511 Estimation & Hypothesis Testing for Applied Biostatistics (4 cr.)

BSTA 512 Linear Models (4 cr.)

BSTA 513 Categorical Data Analysis (4 cr.)

BSTA 514 Statistical Analysis of Time-to-Event Data (3 cr.)

BSTA 517 Statistical Methods in Clinical Trials (3 cr.)

BSTA 519 Applied Longitudinal Data Analysis (3 cr.)

BSTA 535 Biostatistics Capstone (3 cr.)

BSTA 550 Introduction to Probability (3 cr.)

BSTA 551 Theory of Statistical Inference (4 cr.)

EPI 512 Epidemiology I (4 cr.)

PHE 513 Introduction to Public Health (3 cr.)

Elective Courses (16 cr.)*Select from the following:*

- BMI 510 Introduction to Biomedical Informatics and Artificial Intelligence (3 cr.)
- BMI 525 Principles and Practices of Data Visualization (3 cr.)
- BMI 550 Bioinformatics & Computational Biomedicine I: Algorithms (4 cr.)
- BMI 551 Bioinformatics & Computational Biomedicine II: Statistical Methods (4 cr.)
- BSTA 500 Reading & Research in Biostatistics (1-3 cr.)
- BSTA 504 Topics in Biostatistics (1-3 cr.)
- BSTA 515 Data Management & Analysis in SAS (3 cr.)
- BSTA 516 Design & Analysis of Surveys (3 cr.)
- BSTA 522 Statistical Learning & Data Science (3 cr.)
- BSTA 523 Design of Experiments: Statistical Principles of Research Design & Analysis (3 cr.)
- BSTA 526 R programming for Health Data Science (3 cr.)
- EPI 513 Epidemiology II (4 cr.)
- NURS 630 Advanced Measurement (3 cr.)
- NURS 648 Introduction to Structural Equation Modeling (3 cr.)
- STAT 567 Applied Probability I (3 cr.)
- STAT 568 Applied Probability II (3 cr.)
- STAT 580 Nonparametric Methods (3 cr.)
- UNI 511 Data Equity for Health Professionals (2 cr.)
- Other relevant courses with program approval

Biostatistics, Graduate Certificate

*Total credits for completion: 24**GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree***Required Courses (15 cr.)**

BSTA 511 Estimation & Hypothesis Testing for Applied Biostatistics (4 cr.)

BSTA 512 Linear Models (4 cr.)

BSTA 513 Categorical Data Analysis (4 cr.)

BSTA 530 Biostatistics Lab (3 cr.)

Elective Courses (9 cr.)*Select from the following:*

- BMI 510 Introduction to Biomedical Informatics and Artificial Intelligence (3 cr.)
- BMI 525 Principles and Practices of Data Visualization (3 cr.)
- BMI 550 Bioinformatics & Computational Biomedicine I: Algorithms (4 cr.)
- BMI 551 Bioinformatics & Computational Biomedicine II: Statistical Methods (4 cr.)
- BSTA 500 Reading & Research in Biostatistics (1–3 cr.)
- BSTA 504 Topics in Biostatistics (1-3 cr.)
- BSTA 514 Statistical Analysis of Time-to-Event Data (3 cr.)
- BSTA 515 Data Management & Analysis in SAS (3 cr.)
- BSTA 516 Design & Analysis of Surveys (3 cr.)
- BSTA 517 Statistical Methods in Clinical Trials (3 cr.)

- BSTA 519 Applied Longitudinal Data Analysis (3 cr.)
- BSTA 522 Statistical Learning & Data Science (3 cr.)
- BSTA 523 Design of Experiments: Statistical Principles of Research Design & Analysis (3 cr.)
- BSTA 526 R programming for Health Data Science (3 cr.)
- EPI 512 Epidemiology I (4 cr.)
- EPI 513 Epidemiology II (4 cr.)
- NURS 630 Advanced Measurement (3 cr.)
- NURS 648 Introduction to Structural Equation Modeling (3 cr.)
- UNI 511 Data Equity for Health Professionals (2 cr.)
- Other relevant courses with program approval

Public Health, Graduate Certificate

Total credits for completion: 20

GPA and grade requirements: Minimum overall GPA of 3.0; minimum grade of “B-” in required courses and “C” in elective courses; no more than two grades lower than “B-” can be applied to the degree

Required Courses (17 cr.)

BSTA 525 Introduction to Biostatistics (4 cr.)

EPI 512 Epidemiology I (4 cr.)

ESHH 511 Concepts of Environmental Health (3 cr.)

HSMP 574 Health Systems Organization (3 cr.)

PHE 512 Principles of Health Behavior (3 cr.)

Elective Courses (3 cr.)

Select from the following:

- Any 500-level course with a prefix of CPH
- Other relevant courses with program approval

Applied Health & Fitness, B.A., B.S.

This degree is awarded jointly by Portland State University. See PSU publications for program requirements.

Public Health Studies, B.A., B.S.

This degree is awarded jointly by Portland State University. See PSU publications for program requirements.

College of Pharmacy

Doctor of Pharmacy, Pharm.D.

This degree is awarded jointly by Oregon State University. See OSU publications for program requirements.