



Oregon Health & Science University

# Program Requirements Guide

2023-2024

## Degrees and Certificates Offered

	Doctoral Degrees	Master's Degrees	Bachelor's Degrees	Certificates	Page
<b>School of Dentistry</b>					
Doctor of Dental Medicine	D.M.D.				4
Endodontics		M.S. <sup>1</sup>		Post-doctoral	6,7
Orthodontics		M.S. <sup>1</sup>		Post-doctoral <sup>2</sup>	7
Periodontics		M.S. <sup>1</sup>		Post-doctoral	9,11
<b>School of Medicine – Graduate and Undergraduate</b>					
Behavioral & Systems Neuroscience <sup>3</sup>	Ph.D.				24
Bioinformatics & Computational Biomedicine	Ph.D.	M.S.			16,19
Biomedical Engineering <sup>3</sup>	Ph.D.				24
Biomedical Sciences <sup>3</sup>	Ph.D.				25
Clinical Psychology <sup>3</sup>	Ph.D.				26
Dietetic Internship				Graduate	15
Emergency Medical Services Management <sup>4</sup>			B.S.		29
Emergency Medical Technology—Paramedic <sup>4</sup>			A.A.S.		29
Food Systems & Society		M.S.			14
Health & Clinical Informatics	Ph.D.	M.S.		Graduate	18,20,21
Healthcare Administration		M.S.			16
Healthcare Management		M.B.A. <sup>5</sup>			16
Human Investigations Program		M.C.R.		Graduate	13
Human Nutrition		M.S.			14
Master of Physician Assistant Studies		M.P.A.S.			21
Medical Laboratory Science <sup>4</sup>			B.S.		29
Medical Physics	Ph.D.	M.S.			23
Neuroscience <sup>3</sup>	Ph.D.				27
Physical Therapy	D.P.T.				29
Radiation Therapy			B.S.		24
<b>School of Medicine — Doctor of Medicine</b>					
Doctor of Medicine	M.D.				30-36
<b>School of Nursing</b>					
Adult Gerontology Acute Care Nurse Practitioner	D.N.P.				37
Family Nurse Practitioner	D.N.P.				38
Health Systems & Organizational Leadership		M.N.			45
Nurse Anesthesia	D.N.P.				39
Nurse-Midwifery	D.N.P.				40
Nursing	D.N.P., Ph.D.		B.S.		41,44,46
Nursing Education		M.N.			45
Pediatric Primary & Acute Nurse Practitioner	D.N.P.				42
Psychiatric Mental Health Nurse Practitioner	D.N.P.				43
<b>School of Public Health</b>					
Applied Health & Fitness <sup>6</sup>			B.A., B.S.		59
Biostatistics <sup>5</sup>		M.P.H., M.S.		Graduate	52,57,58
Community Health <sup>5</sup>	Ph.D.				47
Environmental Systems & Human Health <sup>5</sup>		M.P.H.			53
Epidemiology <sup>5</sup>	Ph.D.	M.P.H.			48,54
Health Management & Policy <sup>5</sup>		M.P.H.			55
Health Promotion <sup>5</sup>		M.P.H.			56
Health Systems & Policy <sup>5</sup>	Ph.D.				50
Public Health <sup>5</sup>				Graduate	59
Public Health Practice <sup>5</sup>		M.P.H.			57
Public Health Studies <sup>6</sup>			B.A., B.S.		59
<b>College of Pharmacy</b>					
Doctor of Pharmacy <sup>7</sup>	Pharm.D.				60

<sup>1</sup> Completion of post-doctoral certificate required | <sup>2</sup> Completion of M.S. required | <sup>3</sup> An M.S. may be awarded in special circumstances; students are admitted to the Ph.D. only | <sup>4</sup> Joint program awarded by Oregon Institute of Technology | <sup>5</sup> Joint program with Portland State University | <sup>6</sup> Joint program awarded by Portland State University | <sup>7</sup> 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 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 Medical Emergencies (1 cr.)  
 OS 701 Dental Management of Medically Complex Patient (1 cr.)  
 OS 722 Introduction to Oral Surgery (1 cr.)  
 OS 725 Anesthesia in Dentistry (2 cr.)  
 OS 731 Oral Surgery I (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**

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*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.)

OPH 517 Advanced Oral Pathology (1 cr.)  
PER 515A Advanced Pain Control/IV Sedation (5 cr.)  
PER 515B ACLS (1 cr.)  
PER 564 Case Analysis Endo/Perio I (1 cr.)  
PER 565 Case Analysis Endo/Perio II (1 cr.)

## **Endodontics, M.S. and Post-Doctoral Certificate**

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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**

Completion of master’s thesis

## **Orthodontics, M.S. and Post-Doctoral Certificate**

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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**

Completion of master's thesis

### **Periodontics, Post-Doctoral Certificate**

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*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 Endo/Perio I (1 cr.)  
PER 565 Case Analysis Endo/Perio II (1 cr.)  
PER 566 Case Analysis Endo/Perio 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**

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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**

Completion of master’s thesis

## School of Medicine – Graduate and Undergraduate Programs

Area	Degrees	Certificates
Human Investigations	Master of Clinical Research (M.C.R.) <ul style="list-style-type: none"> <li>• Human Investigations Program</li> </ul>	Graduate Certificate <ul style="list-style-type: none"> <li>• Human Investigations Program</li> </ul>
Human Nutrition	Master of Science (M.S.) <ul style="list-style-type: none"> <li>• Food Systems &amp; Society</li> <li>• Human Nutrition</li> </ul>	Graduate Certificate <ul style="list-style-type: none"> <li>• Dietetic Internship</li> </ul>
Management	Master of Business Administration (M.B.A.) <sup>1</sup> <ul style="list-style-type: none"> <li>• Healthcare Management</li> </ul> Master of Science (M.S.) <ul style="list-style-type: none"> <li>• Healthcare Administration</li> </ul>	
Medical Informatics & Clinical Epidemiology	Doctor of Philosophy (Ph.D.) <ul style="list-style-type: none"> <li>• Bioinformatics &amp; Computational Biomedicine</li> <li>• Health &amp; Clinical Informatics</li> </ul> Master of Science (M.S.) <ul style="list-style-type: none"> <li>• Bioinformatics &amp; Computational Biomedicine</li> <li>• Health &amp; Clinical Informatics</li> </ul>	Graduate Certificate <ul style="list-style-type: none"> <li>• Health &amp; Clinical Informatics</li> </ul>
Physician Assistant	Master of Physician Assistant Studies (M.P.A.S.)	
Radiation Medicine	Doctor of Philosophy (Ph.D.) <ul style="list-style-type: none"> <li>• Medical Physics</li> </ul> Master of Science (M.S.) <ul style="list-style-type: none"> <li>• Medical Physics</li> </ul> Bachelor of Science (B.S.) <sup>2</sup> <ul style="list-style-type: none"> <li>• Radiation Therapy</li> </ul>	
Research doctorates	Doctor of Philosophy (Ph.D.) <sup>3</sup> <ul style="list-style-type: none"> <li>• Behavioral &amp; Systems Neuroscience</li> <li>• Biomedical Engineering</li> <li>• Biomedical Sciences</li> <li>• Clinical Psychology</li> <li>• Neuroscience</li> </ul>	
Joint programs <sup>4</sup>	Doctor of Physical Therapy (D.P.T.) Bachelor of Science (B.S.) <ul style="list-style-type: none"> <li>• Emergency Medical Services Management</li> <li>• Medical Laboratory Science</li> </ul> Associate of Applied Science (A.A.S.) <ul style="list-style-type: none"> <li>• Emergency Medical Technology—Paramedic</li> </ul>	

<sup>1</sup>Awarded jointly with Portland State University

<sup>2</sup>See *Requirements for the Bachelor of Science at OHSU* for program requirements

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

<sup>4</sup>Awarded jointly by Oregon Institute of Technology—see Oregon Institute of Technology publications for program requirements

## HUMAN INVESTIGATIONS

### Human Investigations Program, M.C.R.

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*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.)

- HIP 507A Evidence-based Medicine Seminar (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

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*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.)

- HIP 507A Evidence-based Medicine Seminar (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:* 49

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

#### **Required Courses (49 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 504 Capstone Preparation (1 cr.)  
FSS 505 Scholarly Communication (1 cr.)  
FSS 506 Capstone Completion (1 cr.)  
FSS 510 Food Policy & Politics (4 cr.)  
FSS 511 Food in Culture (4 cr.)  
FSS 520 Food Systems Theory (4 cr.)  
FSS 550 Social Movements in the Food System (4 cr.)  
FSS 560 Economic Justice in Food Systems & Society (4 cr.)  
FSS 580 Scholarship & Social Change (4 cr.)  
FSS 598-A Capstone 1 (4 cr.)  
FSS 598-B Capstone 2 (4 cr.)  
FSS 598-C Capstone 3 (4 cr.)

#### **Non-course requirements**

Capstone

### **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 & 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.)
- NUTN 528 I-CAN Nutrition (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.

### **Non-course requirements**

Thesis or capstone

## **Dietetic Internship, Graduate Certificate**

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*Total credits for completion: 32*

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

### **Core Courses (32 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 (21 cr. total)  
NUTN 510 Public Health Nutrition (2 cr.)  
NUTN 511 Pathophysiology & Medical Nutrition Therapy (2 cr.)  
NUTN 512 Advanced Pathophysiology & Medical Nutrition Therapy (2 cr.)  
NUTN 513 Food Service & Clinical Management (1 cr.)

### **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 560 Healthcare Systems (5 cr.)  
 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 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 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 (4 cr.)  
 MGT 592 Strategic Communications (4 cr.)  
 Elective Courses (5 cr.)

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

## MEDICAL INFORMATICS & CLINICAL EPIDEMIOLOGY

### **Bioinformatics & Computational Biomedicine, Ph.D.**

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*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 (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 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.**

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*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 (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 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.)

### **Electives (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**

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*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 (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.**

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*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 (6 cr.)  
PAST 565 Basic Science I (2 cr.)  
PAST 566 Basic Science II (2 cr.)  
PAST 567 Basic Science III (3 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.

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*Total credits for completion:* 135

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

#### Masters Courses (61 cr.)

Students must 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 (48 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 (1 cr.)

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 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 for Medical Physicists (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 (9 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 (22 cr.)**

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

NEUS 624 Cellular Neurophysiology (4 cr.)

BEST 642 Systems Neuroscience (4 cr.)

BMSC 620 Introduction to Biostatistics (3 cr.)

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

NEUS 625 Cellular & Molecular Neurobiology (4 cr.)

**Elective Courses (9 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.)

### **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.)**

Any course with prefix BCMB, BEHN, 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.**

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*Total credits for completion:* 174

*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 (36 cr.)**

CPSY 604 Psychology Internship (36 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.**

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*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 (6 cr.)**

*Select from the following:*

- BEST 616 Neurobiology of Learning & Memory (2 cr.)
- BME 665 Intro to Computational Neurophysiology (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.)
- BMSC 667 Principles of Physiology (2 cr.)
- BMSC 668 Molecular Biophysics & Structural Bioinformatics (2 cr.)
- MSCI 621 Neuroscience & Behavior (variable cr.)
- Maximum of 3 cr. total of
  - NEUS 606 Neuroscience Journal Club (variable cr.)
  - NEUS 606A Developmental Neuroscience Journal Club (1 cr.)
- NEUS 614/PHPH 614 Neurophysiology & Pharmacology of Pain (2 cr.)
- NEUS 637 Advanced Topics in Developmental Neuroscience (3 cr.)
- NEUS 638 Advanced Optical Techniques in Neuroscience (1 cr.)
- NEUS 639 Topics in the Auditory System (2 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 643 Statistical Image Analysis for Neuroscience (2 cr.)
- NEUS 644 Racial Equity in Scientific Research & Beyond (3 cr.)
- PHPH 617 Pharmacokinetics: Drug Absorption, Distribution and Elimination (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 (48.5 cr.)**

*Can be met by any of the following:*

- NEUS 601 Research (variable cr.)
- NEUS 603 Dissertation (variable cr.)
- NEUS 608 Professional Experience (variable cr.)
- NEUS 609 Professional Practicum (variable cr.)
- NEUS 610 Teaching Practicum & Assistantship (3 cr.)
- Additional courses from the Elective Courses list
- Other relevant graduate courses with program approval

### **Non-course requirements**

Qualifying examination

Doctoral dissertation and defense

## JOINT PROGRAMS

### **Doctor of Physical Therapy, D.P.T.**

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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.**

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

### **Medical Laboratory Science, B.S.**

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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.**

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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.; only 5 credits count toward degree completion)

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.)

FAMP 730 Family Med Core Clinical Exp (6 cr.; alt. FAMP 730R)

*Alternatively, take one of the following (Only 6 credits count toward degree completion)*

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

IMED 730 Internal Med Core Clinical Exp (6 cr.; alt. IMED 730R)

*Alternatively, take one of the following (Only 6 credits count toward degree completion)*

- IMED 731A IM Continuity Core Hosp Based (12 cr.; alt. IMED 731RA)
- IMED 731B IM Continuity Core Inpt/Abm (12 cr.; alt. IMED 731RB)

INTS 770 Intersession – Assessment/Testing (7 cr.; met by any course numbered 770A-G or 770AR-GR)

*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 Exp (6 cr.; alt. NEUR 730R)

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

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

PSYC 730 Psychiatry Core Clinical Exp (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 I-III (6 cr.)

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

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

TRAN 703 Transition to Clinical Exp (2 cr.)

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

### **Electives (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
- FAMP 705NA Intro to Native Health (0.5 cr.)

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 American Indian/Alaska Native
- GMED 713A Internal Medicine Research
- IS 709A OHSU Global SE Asia Chang Rai
- MINF 709A Clinical Informatics
- NEUR 713A Neurology Research
- OPHT 713A Ophthalmology Research
- ORTH 713A Orthopaedics Research
- PEDI 713A Pediatrics Research
- RADT 710RE Radiation Oncology-Remote
- RADT 713A Radiation Medicine Research
- UROL 713A Urology Research

*Note: A maximum of 4 courses from the following list (taken during Foundations) may be used to meet this requirement: FAMP 705NA, FAMP705H, FAMP705IH, GMED 705AM, GMED 705L, GMED 705MA, GSTR 705Q, JCON 705DA, JCON 705RC, JCON 705SP, JCON 705ST, MULT 709C, OBGY 705SE, ORTH 705A, ORTH 705C, UNI 702*

### **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 709SC Rural Emergency Med-St Charles (variable cr.)

- EMED 709SS Rural Emergency Med-Seaside (4 cr.)
- FAMP 709L Fam Med SUBI at K Falls (variable cr.)
- FAMP 709MA FM Sub-I OHSU SCHS Madras RTP (6 cr.)
- FAMP 709RB Roseburg Family Medicine Sub-I (6 cr.)
- FAMP 709TR Family Rural Focused Clinical (variable cr.)
- FAMP 731B Fam Med Continuity Core-Rural (18 cr.; alt. FAMP 731BR)
- FAMP 731C Fam Med Rural Continuity Core (variable cr.; alt. FAMP 731CR)
- FAMP 741R Rural Family Med Continuity (variable cr.)
- FAMP 741TH Tribal Health Immersion Cont. (variable cr.)
- GMED 709CB Rural Inter Med – South Coast (variable cr.)
- GMED 741CB Rural IntMed Contiuity-S Coast (variable cr.)
- MULT 705A Quality Improv Rural Hlth-SC (variable cr.)
- MULT 705C Quality Improv Rural Hlth-KF (variable cr.)
- MULT 709B Multidis Rural Hospital Med (4 cr.)
- OFKF 741F Oregon First Rural Continuity2 (15 cr.)
- OFKF 741S Oregon First Rural Scholar4 (variable cr.)
- OFKF 741U Oregon First Rural Continuity1 (5 cr.)
- OFKF 741W Oregon First Rural Continuity3 (12 cr.)
- ORTH 709CB Rural Ortho – South Coast (4 cr.)
- ORTH 741LG Rural Conti Ortho-Sport Med (8 cr.)
- PEDI 709CB Rural Pediatrics – South Coast (variable cr.)
- PEDI 709KF Rural Pediatrics-Klamath Falls (variable cr.)
- PEDI 709LG (Rural Pediatrics – Eastern OR) (variable cr.)
- PMR 709GB Rural PMR – Gold Beach (4 cr.)
- RSP 741 Oregon AHEC Scholars (variable cr.)
- SURG 709K Rural Gen Surg – Grants Pass (6 cr.)
- SURG 709M (Rural General Surg- Gold Beach (variable cr.)

### Continuity Requirement

Continuity Clinical Experience: A minimum of 8 credits of required or elective courses must be numbered 731, 731R, 741, or 741R

### 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.

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

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*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 Exp (2 cr.)  
 FAMP 730 Family Med Core Clinical Exp (6 cr.; alt. FAMP 730R)  
 IMED 730 Internal Med Core Clinical Exp (6 cr.; alt. IMED 730R)  
 NEUR 730 Neurology Core Clinical Exp (6 cr. ; alt. NEUR 730R)  
 OBGY 730 OBGYN Core Clinical Exp (6 cr. ; alt. OBGY 730R)  
 PEDI 730 Pediatrics Core Clinical Exp (6 cr. ; alt. PEDI 730R)  
 PSYC 730 Psychiatry Core Clinical Exp (6 cr. ; alt. PSYC 730R)  
 INTS 770 Intersession – Assessment/Testing (6 cr.; met by any course numbered 770A-F or 770AR-FR)  
 CPX 702 Clinical Performance Examination (1 cr.)

*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)

### **Electives (8 cr.)**

Surgery Clinical Experience (4 cr.)

- CSUR 709A Cardiothoracic Surgery
- PLAS 709A Plastic & Reconstruct Surgery
- PLAS 709B Plastic Surgery - Community
- PLAS 709C Sub-I Plastic Surgery
- PLAS 709S Comprehensive Breast Surgery
- PSUR 709A Pediatric Surgery
- PSUR 709B SUBI Pediatric Surgery
- SURG 709B Sub-I General Surgery-Blue
- SURG 709D Sub-I General Surgery-Gold
- SURG 709G SUB-I Vascular Surgery
- SURG 709GE Vascular Surgery
- SURG 709GS Community-Based Surgical Care
- SURG 709GV Vascular Surgery - VAMC
- SURG 709H General Surgery - PeaceHealth
- SURG 709K Rural Gen. Surg. – Grants Pass
- SURG 709L Sub-I Burns/Gen Surg-Emanuel
- SURG 709M Rural General Surg- Gold Beach
- SURG 709PA Providence General Surgery-Pro
- SURG 709R Abdominal Organ Transplant
- SURG 709RE Sub-I Gen Surgery - OHSU - Red
- SURG 709S Sub-I Gen Surgery-St. Vincent
- SURG 709T Surgery-Trauma at Emanuel
- SURG 709UC General Surgery-Green Colorectal Surgery
- SURG 709UH General Surgery – Green Hernia and Abdominal Wall
- SURG 709V Surgery Subintern – VAMC General Surgery
- 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

#### **Rural Requirement**

- Not required

#### **Continuity Requirement (8 cr.)**

- OMAS 741A OMS Continuity Sub-I (8 cr.)

#### **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.

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

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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.)**

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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

- Up to of 6 cr. of JCON 715 M.D./Ph.D. Longitudinal Clerkship can be applied to the Clinical Experience Electives requirement of the M.D. No credits of JCON 715 are required to earn the M.D.
- 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 (7 cr.)**

CONJ 640 Professional Development Fundamentals (1 cr.)

JCON 715 M.D./Ph.D. Longitudinal Clerkship (6 cr.)

**Dissertation (27 cr.)**

BMSC 603 Dissertation (27 cr. total)

**Additional Courses (81 cr.)**

*Can be met by any of the following.*

- BMSC 601 or CONJ 601 Research (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

### Masters 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.**

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*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.)**

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 781 Diagnostic & Procedures I (1 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 Community Project (1 cr.)

## **Nurse Anesthesia, D.N.P.**

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*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.**

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*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)**

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*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.**

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*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.**

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*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.**

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*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.**

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*Total credits for completion: 48*

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

**Core Courses (8 cr.)**

NURS 508 Concepts for Advanced Nursing Practice: Roles & Ethics (3 cr.)

NURS 524 Evaluating Evidence (3 cr.)

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

**Health Systems Core (19 cr.)**

NURS 509HS Practice in Leading Effective Organizations (variable cr.; 10 cr. total)

NURS 548/748 Quality Science in Health Services & Academic Practice (3 cr.)

NURS 549/749 Evidence Driven Clinical & Organizational Effectiveness (3 cr.)

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

**Organizational Leadership Specialty Core (18 cr.)**

NURS 596/796 Complexity Science Approaches in Leading Academic & Health Services Organizations (3 cr.)

NURS 597/797 Creating Sustainable Organizations (3 cr.)

NURS 598 Managing Human Capital (3 cr.)

NURS 599/799 Strategic Innovation & Healthcare Complexity (3 cr.)

NURS 595 Communication in Nursing Leadership (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 (3 cr.)
- BMI 517 Organizational Behavior & Management (3 cr.)

**Nursing Education, M.N.**

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*Total credits for completion: 48*

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

**Foundational Courses (9 cr.)**

NURS 513 Concepts of Advanced Nursing Knowledge & Leadership (3 cr.)

NURS 524 Evaluating Evidence (3 cr.)

NURS 559/659 Understanding Social Determinants of Health (3 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.**

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*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 (31 cr.)

Select one (3 cr.)

- ESHH 519 Environmental Health in a Changing World (3 cr.)
- ESHH 612 Global & Planetary Health Concepts (3 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 546 Urban & Community Health (3 cr.)

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

PHE 619 Mentored Teaching (4 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.)

### **Methods Core (23 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.)

PHE 520 Qualitative Research Design (3 cr.)

PHE 624 Philosophy through Power Calculations: Writing Methods Sections for Research Proposals (3 cr.)

PHE 625 Advanced Methods Toolkit: Design, Sampling, Scale Development, & More (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 (21 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 (7 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.**

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*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 (24 cr.)**

EPI 610 Epidemiology Doctoral Seminar I (3 cr.)

EPI 613 Epidemiology II: Methods (4 cr.)

EPI 614 Epidemiology III: Causal Inference (4 cr.)

EPI 630 Epidemiology Journal Club (1 cr.; take twice)

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

EPI 640 Research Proposal & Design (3 cr.)

EPI 668 Infectious Disease Epidemiology (2 cr.)

EPI 676 Chronic Disease Epidemiology (2 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 (13–15 cr.)**

Select one (1–3 cr.)

- MGRD 650 Practice & Ethics of Science (1 cr.)
- HSMP 673 Values & Ethics in Health (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 (27–29 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 518 Spatial Data with GIS (3 cr.)
- BSTA 519 Applied Longitudinal Data Analysis (if not applied to Biostatistics core; 3 cr.)
- BSTA 521 Bayesian Methods for Data Analysis (3 cr.)
- BSTA 522 Statistical Learning & Data Science (3 cr.)
- BSTA 550 Introduction to Probability (3 cr.)
- BSTA 551 Statistical Inference I (3 cr.)
- BSTA 552 Statistical Inference II (3 cr.)
- CPH 615 Geographic Information Systems for Public Health (3 cr.)
- EPI 611 Epidemiology Doctoral Seminar II (2 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 (15-17 cr.)

- BMI 610 Introduction to Biomedical Informatics (3 cr.)
- BMI 612 Clinical Information Systems (3 cr.)
- BMI 621 Public Health Informatics (3 cr.)
- BMI 637 Healthcare Quality (3 cr.)
- CPH 621 Social Determinants of Health (3 cr.)
- CPH 622 Communicating Public Health Data (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 & Conference (variable cr.)
- EPI 610 Epidemiology Doctoral Seminar I (3 cr.)
- EPI 611 Epidemiology Doctoral Seminar II (2 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 527 Food Systems & Public Health (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

**Mentored Epidemiology Teaching (1 cr.)**

EPI 660 Mentored Epidemiology Teaching (1 cr.)

**Dissertation (27 cr.)**

EPI 603 Epidemiology Dissertation (27 cr.)

**Non-course requirements**

Comprehensive examination

Doctoral dissertation and defense

**Health Systems & Policy, Ph.D.**

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*Total credits for completion:* 103

*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 (21 cr.)**

- HSMP 642 Organizational Theory & Health Systems (3 cr.)
- HSMP 660 Contemporary Research in Health Systems & Policy (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.)

**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.)

Electives (Select 3 courses: 9 cr.)

- AGE 657 National Long-term Care Policy (3 cr.)
- CPH 631 Social Justice and Public Health (3 cr.) OR HSMP 684 Social Policy & Public Health (3 cr.)
- HSMP 682 Oregon Health Policy: Lessons for State & National Reform (3 cr.)
- HSMP 685 Implementation Science in Health Systems (3 cr.)
- SW 525 Poverty: Policies & Programs (3 cr.)
- SW 652 Advanced Social Policy Analysis (3 cr.)
- USP 536 Policy Evaluation Methods (3 cr.)

**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.)

Electives (6 cr.)

- Relevant courses with program approval

**Research Design and Methods Courses (19 cr. minimum)**

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

Select one (3–4 cr.)

- PHE 520 Qualitative Research Design (3 cr.)
- USP 683 Qualitative Analysis (4 cr.)
- SOC 637 Qualitative Data Analysis (4 cr.)

SOC 638 Integrating Qualitative & Quantitative Methods (4 cr.)

Electives (Select 3: 9 cr. minimum)

- BSTA 516 Design & Analysis of Surveys (3 cr.)
- CPH 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 Epidemiologic 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.**

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*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 (22 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.)

BSTA 509PE Practice Experience (4 cr.)

BSTA 502IP Integrative Project (1 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.)

### **Electives (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 521 Bayesian Methods for 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 524 Statistical Methods for Next Generation Sequencing Data (3 cr.)
- BSTA 526 R programming for Health Data Science (3 cr.)
- BSTA 550 Introduction to Probability (3 cr.)
- BSTA 551 Statistical Inference I (3 cr.)
- BSTA 552 Statistical Inference II (3 cr.)
- EPI 514 Epidemiology III (4 cr.)
- PHE 519 Introduction to the Etiology of Disease (3 cr.)
- Other relevant courses with program approval

### **Non-course requirements**

Passing score on the Certified in Public Health Examination

Passing scores on the MPH Biostatistics Comprehensive Exam (written and lab)

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

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*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 (22 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.)

ESHH 509PE Practice Experience (4 cr.)

ESHH 502IP Integrative Project (1 cr.)

### **Program Core Courses (16 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.)

HSMP 573 Values & Ethics in Health (3 cr.)

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

### **Electives (22 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

### **Non-course requirements**

Passing score on the Certified in Public Health Examination

## **Epidemiology, M.P.H.**

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*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 (22 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.)

EPI 502IP Integrative Project (1 cr.)

EPI 504PE Practice Experience (4 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.)

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.)

### **Electives (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

### **Non-course requirements**

Passing score on the Certified in Public Health Examination

## **Health Management & Policy, M.P.H.**

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*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 (22 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.)

HSMP 502IP Integrative Project (1 cr.)

HSMP 509PE Practice Experience (4 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.)

### **Electives (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

### **Non-course requirements**

Passing score on the Certified in Public Health Examination

## **Health Promotion, M.P.H.**

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*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 (22 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.)

PHE 502IP Integrative Project (1 cr.)

PHE 504PE Practice Experience (4 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.)

### **Area of Emphasis Electives (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

### **Non-course requirements**

Passing score on the Certified in Public Health Examination



## Public Health Practice, M.P.H.

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*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 (22 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.)  
CPH 502IP Integrative Project (1 cr.)  
CPH 509PE Practice Experience (4 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.)

### Electives (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

### Non-course requirements

Passing score on the Certified in Public Health Examination

## Biostatistics, M.S.

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*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 (40 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 530 Biostatistics Lab (3 cr.)  
 BSTA 550 Introduction to Probability (3 cr.)  
 BSTA 551 Statistical Inference I (3 cr.)  
 BSTA 552 Statistical Inference II (3 cr.)  
 EPI 512 Epidemiology I (4 cr.)  
 PHE 513 Introduction to Public Health (3 cr.)

### Elective Courses (14 cr.)

*Select from the following:*

- 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 521 Bayesian Methods for 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 524 Statistical Methods for Next Generation Sequencing Data (3 cr.)
- BSTA 526 R programming for Health Data Science (3 cr.)
- EPI 513 Epidemiology II (4 cr.)
- STAT 567 Applied Probability I (3 cr.)
- STAT 568 Applied Probability II (3 cr.)
- STAT 580 Nonparametric Methods (3 cr.)
- Other relevant courses with program approval

### Non-course requirements

Comprehensive examination (written and lab)

## Biostatistics, Graduate Certificate

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*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 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 524 Statistical Methods for Next Generation Sequencing Data (3 cr.)
- BSTA 526 R programming for Health Data Science (3 cr.)
- EPI 512 Epidemiology I (4 cr.)
- EPI 513 Epidemiology II (4 cr.)
- Other relevant courses with program approval

## **Public Health, Graduate Certificate**

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*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.**

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

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

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

## College of Pharmacy

### **Doctor of Pharmacy, Pharm.D.**

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