

### PROFESSIONAL ELECTIVES

Entry-level PharmD students must complete a minimum of 11 hours of program electives prior to graduation. Elective course work is to be taken while enrolled in the Doctor of Pharmacy program. We cannot count any courses taken prior to matriculation into the PharmD program.

The following lists were compiled through input from faculty in the College of Pharmacy and current Doctor of Pharmacy students and contain courses taken by current and past PharmD students. The PharmD Program Committee continues to explore other elective options and invites input to these lists. Please contact Joe Orozco at Orozco.5@osu.edu to make a suggestion.

**\*\*Courses are subject to change at any time\*\***

#### Approved Elective Courses Offered Through the College of Pharmacy

Course Number	Credit Hours	Course Title
PHR 5170	2	Introduction to Clinical & Translational Pharmacy Research
PHR 5402	3	Introduction to Pharmacoeconomics
PHR 5500 <i>*previous course number 5130</i>	3	History of Pharmacy
PHR 5510 <i>*previous course number 5150</i>	3	Basics of Pharmaconutrition
PHR 5530 <i>*previous course number 5160</i>	2	Med Apps of Radionuclides & Radiopharmaceuticals
PHR 5540 <i>*previous course number 5170</i>	2	Intro to Clinical Translat Pharm Research
PHR 5550 <i>*previous course number 5180</i>	2	Topics in International Pharmacy
PHR 5560 <i>*previous course number 5610</i>	1.5	Success & Leadership in Pharmacy
PHR 5580 <i>*previous course number 5140</i>	1.5	Professional Ethics
PHR 5590 <i>*previous course number 5190</i>	1	Chemical Dependency for Health Care Professionals
PHR 5798	2	International Healthcare Experience/Study Abroad
PHR 6193		Individual Studies in Pharmacy
PHR 6194		Group Studies in Pharmacy
PHR 7130	2	Humanistic Pharmacy
PHR 7140	2	Neurobiology of Addiction
PHR 7150	1.5	Pediatric Pharmacotherapy
PHR 7160	1	Advocacy in Pharmacy
PHR 7170	3	Pain Palliative Care & Geriatrics
PHR 7180	1	CNS Drug Discovery
PHR 7190	1	Topics in Oncology Pharmacy
PHR 7200	1	Patient Care Services in Community & Ambulatory Pharm Practice
PHR 7210	2	Strategies for Interprofessional Case Management
PHR 7220	3	Health Analytics
PHR 7350	2	Drug Discovery & Drug Design
PHR 7370	2	Advanced Pharmaceutical Analysis
PHR 7570	3	Pharmaceutical Safety & Risk Management

PHR 7572	3	Global Regulations of Medical Products
PHR 7580	3	Principles of Safety Pharmacology
PHR 7582	3	Organ System Toxicology
PHR 7620	2	Topics in Emergency Medicine Pharmacotherapy
PHR/Nursing 7770	3	Fundamentals of Medical Product Regulatory Affairs
PHR/Nursing 7782	3	Research Design & Methods for Clinical & Preclinical Research
PHR 7850	1	Intro to Complementary & Alternative Medicines
PHR 7891	2	Chromatographic Methods
PHR 7893	2	Phytochemical Analysis of Natural Products
PHR 8000	2	Principles of Radioisotope Tracer Techniques
PHR 8008	1	Pharmaceutical Sciences Research & Communication
PHR 8020	3	Advanced Pharmacokinetics
PHR 8025	3	Pharmacometrics
PHR 8050	2	Pharmaceutical Biotechnology
PHR 8070	2	Advanced Drug Delivery Systems
PHR 8160	2	Medication Use System Management
PHR 8170	4	Issues in Health-System Pharmacy
PHR 8194	1 to 6	Group Studies in Pharmaceutical Sciences
PHR 8350	2	Advanced Medicinal Chemistry I
PHR 8360	2	Advanced Medicinal Chemistry II
PHR 8370	2	Chemotherapy of Infectious Diseases
PHR 8380	2	Adv. Medicinal Chem: Structure-based Computer-aided Molecular Dsgn
PHR 8390	2	Recent Advances in Pharmacognosy
PHR 8510	2	Advanced Pharmacognosy
PHR 8520	1	Research Ethics
PHR 8700	2	Theoretical & Experimental Pharmacology
PHR 8730	1	Contemporary Pharmacology
PHR 8740	1	History of Pharmacology & Drug Discovery
PHR 8880.02	.5	All College Seminar: Participation
PHR 8881.02	.5	Medicinal Chemistry Seminar Participation
PHR 8882.02	.5	Pharmaceutics Seminar Participation
PHR 8883.02	.5	Pharmaceutical Administration Seminar Participation
PHR 8884	1	MS in Health-System Pharmacy Seminar
PHR 8885.02	.5	Pharmacology Seminar Participation
PHR 8886.02	.5	Translational Science Seminar Participation
PHR 8993	1 to 6	Individual Studies in the Pharmaceutical Sciences
PHR 8999	1 to 6	Research in the Pharmaceutical Sciences

### Approved Elective Courses Offered Outside of the College of Pharmacy

Course Number	Credit Hours	Course Title
Accounting 2000	3	Foundations of Accounting
Accounting 2200*	3	Introduction to Accounting I
Ag & Extension Education 8850	2	Research Methods
Ag & Extension Education 8860	2	Research Design
Ag & Extension Education 8870	2	Analysis & Interpretation of Data
Biology 5001	1	Topics in Biology Teaching
Business Admin: Finance 1200	3	Personal Finance
Business Admin: Finance 3120*	3	Foundations of Finance
Business: Mgmt & HR 3100*	3	Foundations of Mgmt & Human Resources
Business: Mgmt & Science 3130 *	3	Foundations of Operations Management
Business: Marketing & Log 3150*	3	Foundations of Marketing
Comparative Studies 2104	3	Literature, Science and Technology
Comparative Studies 3645	3	Cultures of Medicine
Comp Science & Engineering 2451	2	Advanced C Programming
Comp Science & Engineering 5241	2	Introduction to Database Systems
Comp Science & Engineering 5022	3	Software I: Software Components
Economics 2001.01	3	Principles of Microeconomics
Education: Teaching & Learning 7744	3	Problem Solving in STEM
Educational Studies: Workforce Develop & Edu 5635	3	School Health Services
English 3304	3	Business and Professional Writing
English 3305	3	Technical Writing
Health & Rehab Science 4320	3	Clinical Interviewing & Risk Assessment in Healthcare
Health & Rehab Science 5300	3	Management Principles & Human Resources for Health Professionals
Health & Rehab Science 5370	3	U.S. Healthcare Policy & Delivery System
Health & Rehab Science 5650	3	Aging & Public Policy Issues
Health & Rehab Science 5610	2	Death, Loss & Grief in Multiple Perspectives
Health & Rehab Science 5880.01	2	Interprofessional Education Seminar on Interprofessional Care
Health & Rehab Science 5880.03	2	Interprofessional Education Seminar on Ethical Issues Common to Helping Professionals
Health & Rehab Science 7650S	2	Interdisciplinary Case Studies in Clinical Gerontology
Health Info Mgt & Systems 5650	3	Healthcare Information Systems & Technology
Human Dev & Family Science 5430	3	Adult Development & Aging
History 3701	3	History of American Medicine
Internal Medicine 7790	2	Introduction to Applied Gerontology
Internal Medicine 7795	2	Issues & Trends in Aging
International Studies 5801	3	Children & War
Kinesiology:Hlth & Exer Sci 5703	3	Health Behavior Theory
Medical Dietetics 3100	3	Human Nutrition & Metabolism
Nursing 5111	2	Palliative Care & End of Life Care
Nursing 6430	3	Cultural Competence in Health Care: US and Global Contexts
Psychology 3550	3	Psychology of Childhood
Psychology 3551	3	Psychology of Adolescence
Psychology 4552	3	Psychology of the Adult Years
Psychology 5681	3	Development & Psychopathology
Pub Hlth: Biostatistics 6210	3	Design & Analysis of Studies in Health Sciences I

Pub Hlth: Hlth Svcs Mgmt & Policy 7602	3	Health Insurance and Payment Policy
Pub Hlth: Hlth Svces Mgmt & Policy 7605	3	Introduction to Health Policy
Pub Hlth: Hlth Svces Mgmt & Policy 7615	3	Health Services Organizational Management
Pub Hlth: Hlth Svces Mgmt & Policy 7640	3	Mental Health & Disability Policy
Sociology 3630	3	Medical Sociology
Spanish 1155	4	Intensive Spanish for Review
Speech & Hearing Science 5714	3	Introduction to Sign Language
Veterinary Medicine 7564	1	Clinical Microbio & Pharmac of Antimicrobial Agents
Women's Gender & Sexuality Studies 2325	3	Issues in Women's Health

***\*These five courses will complete the General Business Minor through Fisher College of Business. This is an undergraduate minor program.***

### Graduate Interdisciplinary Specialization in Aging Core Courses

*These courses will also count towards elective hours. Students do not need to be enrolled in these specializations to obtain the elective hours.*

Course Number	Credit Hours	Course Title
Social Work 7610	3	Integrative Seminar I on Aging & Health
HTHRHSC 7650S	2	Case Studies in Clinical Gerontology
MedColl 7700.01	2 to 3	Interprofessional Seminar in Clinical Practice
Anthro 8193.07	3	Research Issues in Gerontology

### Graduate Interdisciplinary Specialization in Aging Elective Courses

*These courses will also count towards elective hours. Students do not need to be enrolled in these specializations to obtain the elective hours.*

Course Number	Credit Hours	Course Title
Anthropology 5193.07	1-4	Physical Anthropology, Independent Study
Anthropology 5642	3	Growth, Development & Aging
Anthropology 5645	3	Biology of Senescence
Arts & Sciences 6110	2	Health Literacy
DESIGN 6400	3	Graduate Design Studio: Future Aging & Social Engagement
DESIGN 7193	Varies	Individual Studies
EDUCST 5880.01	2	Interprofessional Education: Seminar on Interprofessional Care
EDUCST 5880.03	2	Interprofessional Education: Seminar on Ethical Issues
EDUCST 5880.04S	3	Interprofessional Education: Collaboration in Urban Communities
ESCE 3193.40	Varies	Individual Studies
HDFS 5430	3	Adult Development & Aging
HDFS 933	Varies	Individual Studies
HTHRHSC 5600	3	Global Aging
HTHRHSC 5610	2	Death, Loss & Grief from Multiple Perspectives
HTHRHSC 5620	3	Aging, Accessibility, and Design
HTHRHSC 5650	3	Aging & Public Policy Issues
HTHRHSC 5660	4	Longterm Care Services Across the Continuum
HTHRHSC 5880.01	2	Interprofessional Education: Seminar on Interprofessional Care
HTHRHSC 5880.03	2	Interprofessional Education: Seminar on Ethical Issues Common to Helping Professions
HTHRHSC 6193	Varies	Individual Studies
HTHRHSC 7010	2	Health Literacy
HTHRHSC 7193	Varies	Individual Studies
HTHRHSC 7600	2	Introduction to Aging
KNHES 5493	1	Fitness Program Development & Evaluation – Older Adult Exercise Prescription
KNHES 8999	Varies	Independent Study
Law 7193	Varies	Individual Studies
Law 796.20	2	Estate Planning & Drafting
Law 8400	2	Interprofessional Education: Care of Patient/Client
Law 8403	2	Ethical Issues
Law 8709	3	Wills, Trusts, & Estates
Med Coll 6880.01	2	Interprofessional Education: Interprofessional Care

Med Coll 6880.03	2	Interprofessional Education: Ethical Issues
Med Coll 7710	2	Health Literacy
Med Coll 7795	2	Issues & Trends in Aging
Music 6895	1	Music in Older Adulthood
Nursing 5111	2	Palliative & End of Life Care
Nursing 5880.01	2	Interprofessional Education: Interprofessional Care
Nursing 5880.03	2	Interprofessional Education: Ethical Issues
Nursing 6110	2	Health Literacy
Nursing 7193	Varies	Individual Studies
Nursing 7228.01	3	Advance Practice Adult Nursing Clinical Practicum I
Nursing 7228.02	3	Advance Practice Adult Nursing Clinical Practicum II
Nursing 7268.03	3	Advance Practice Adult Nursing Clinical Practicum III
Occ Therapy 6120	2	Occupation in Live & Community
Occ Therapy 7260	2	Occupational Therapy of Older Adults
Occ Therapy 7280	2	Advanced Topics in Geriatrics
Optometry 7450.06	2	Vision Rehabilitation
Optometry 7460	5	Low Vision Rehabilitation & Gerontology
Pharmacy 6193	Varies	Independent Study
Pharmacy 7170	3	Pain, Palliative Care & Geriatrics
Physical Therapy 8050	1	Topics in Rehabilitation & Long Term Care
Physical Therapy 8270	2	Geriatric Management
PUBHEPI 6435	3	Chronic Disease Epidemiology
PUBHHMP 6610	3	Introduction to Health Care Organization
PUBHHMP 7611	3	Law & Ethics in Health Care
PUBHHMP 7624	3	Economic Evaluation of Health Care Programs & Services
PUBHHMP 7640	3	Mental Health & Disability Policy
Public Health (PUBHBIO, PUBHEHS, PUBHHBP, PUBHEPI, PUBHHMP)	Varies	Individual Studies
Social Work 5009	3	Family Caregiving: Contemporary Issues, Programs & Policies
Social Work 5011	2	Loss & Grief: A Social Work Practice Perspective
Social Work 5880.03	2	Ethical Issues Common to the Helping Professions
Social Work 7193	Varies	Individual Studies
Social Work 7523	3	Clinical Social Work Practice with Older Adults
Social Work 7611	3	Integrative Seminar II on Aging & Health
Social Work 8193	Varies	Individual Studies
Sociology 5629	3	Health Disparities in Social Context
Speech and Hearing Science 5605	3	Multicultural Aspects of Communication
Speech and Hearing Science 5732	3	Introduction to Aural Rehabilitation
Speech and Hearing Science 5760	3	Neurology of the Speech and Hearing Mechanism
Speech and Hearing Science 6733	3	Adult Audiologic Rehabilitation
Speech and Hearing Science 6735	3	Hearing Aids I
Speech and Hearing Science 6761	3	Cognitive Communication Disorders in Adults
Speech and Hearing Science 6762	3	Language Disorders in Adults
Speech and Hearing Science 6763	3	Traumatic Brain Injury in Children and Adults
Speech and Hearing Science 7806	3	Adult Hearing Disorders
Speech and Hearing Science 7835	3	Hearing Aids II
Theatre 5771.08	3	The Practice of Theatre and Aging
Theatre 5771.07	3	Crones, Curmudgeons, and Living Treasures

**For more information contact:**

Office of Geriatrics and Gerontology 614-293-4815

### Graduate Interdisciplinary Specialization in Global Health Core Course

*These courses will also count towards elective hours. Students do not need to be enrolled in these specializations to obtain the elective hours.*

Course Number	Credit Hours	Course Title
PUBHLTH 6000	2	Introduction to Global Health

### Graduate Interdisciplinary Specialization in Global Health Elective Courses

*These courses will also count towards elective hours. Students do not need to be enrolled in these specializations to obtain the elective hours.*

Course Number	Credit Hours	Course Title
AEDECON 4534	3	Comparative Challenges to Economic Development
AGRCOMM 5150	3	Communication Strategies for Change & Development
ANTHROP 5601	3	The Anthropology of Sex, Drugs and HIV
ANTHROP 5602	3	Medical Anthropology: Global Perspectives on Women's Health
ANTHROP 5701	3	Health & Healing in Latin America & Caribbean
HN 7804	3	Advanced Community & International Nutrition
INSTDS 4532	3	Food Security & Globalization
INSTDS 4535	3	International Economic Development
INSTDS 5616	3	Challenges to Childhood: An International Perspective
INSTDS 5640	3	Globalization & Latin America: Multi-Disciplinary Approaches
INSTDS 5801	3	Children & War
NURSING 5430	2	Interdisciplinary Healthcare in the Global Community
PHR 5550 <i>*previous course number 5180</i>	2	Topics in International Pharmacy
PUBHEHS 5320	3	Climate Change & Human Health
PUBHEHS 6320	3	Global Health & Environmental Microbiology
PUBHEHS 7390	3	Major Human Diseases in Global Public Health
PUBHEPI 5412	2	Infectious Diseases in the Developing World
PUBHEPI 6410	3	Principles of Epidemiology
PUBHEPI 6436	3	Infectious Disease Epidemiology
PUBHHMP 4660H	3	Primary Care Across Countries
PUBHLTH 6000	2	Introduction to Global Health
PUBHLTH 7000	3	Public Health in Developing Countries
RURLSOC 8500	3	Rural Sociology of Development and Social Change
SPAN 8193.01	2	Medical Spanish
VETPREV 7721	3	Epidemiology of Zoonotic Diseases
VETPREV 7722	3	Food-Borne Diseases, Food Animal Production Systems and Food Safety
VETPREV 7730	2	Emerging Zoonotic Diseases in a Global Context
VISSCI 5500	1.5	Special Topics in Vision Science: Global Issues in Eye Care

**For more information contact:**

Health Sciences Center for Global Health  
614-292-3684

## Graduate Business Minor in Health Science Core Courses

<b>COURSE SERIES ONE</b>		
<b>Course Number</b>	<b>Credit Hours</b>	<b>Course Title</b>
BUSMGT 7701	2	Managing Business Operations for Health Sciences
BUSFIN 7702	2	Applied Managerial Economics for Health Sciences
BUSMHR 7703	2	Leadership, Talent Management & Organizational Behavior in Health Sciences
<b>COURSE SERIES TWO</b>		
<b>Course Number</b>	<b>Credit Hours</b>	<b>Course Title</b>
BUSMHR 7714	1.5	Strategy & Competitive Analysis for Health Sciences
BUSML 7715	1.5	Attracting & Retaining Customers in Health Sciences
AMIS 7716	1.5	Accounting & Financial Analysis in Health Sciences
BUSMGT 7717	1.5	Capstone: Healthcare Business Solution Teams

**For more information contact:**

The Fisher College of Business Graduate Programs Office

(614) 292-3836

<http://fisher.osu.edu/prospective/graduate/business-minor>



## INELIGIBLE COURSE LIST

These courses have been determined as unacceptable to use towards the 6 hour elective requirement by the PharmD Program Committee. Students may take these courses on their own accord, but they will not count towards any PharmD degree requirements.

ARABIC 2241	Cult Contem Ar Wld
ANTHROP 2202	Intro to Cultr Anthro
ARTSSCI 2120	Internet tools
ARTSSCI Adv	Online Rsch
ARTSSCI 3142.01	Onl Res& Sci Lit
ARTSSCI 6110	Health Literacy (PHR 6110 instead)
ATHRNG 5510	Pharmacology in AT
CHINESE 5400	Perfrmance Tradtns
CLAS 2010	Scient Terminology
CSCRMFNS 2260	Fam Financial Mgt1
DANCE 1151	Hip Hop I
DANCE 2102	Contemporary II
DANCE 2114	Pointe
DANCE 2142	Jazz II
EDUPAES 1150	Lifetime Fitness and Wellness Training
EDUPAES 1152	Social Dance
EDUPAES 1153	Recreational Dance
EDUPAES 1161	Horseback Riding
EDUPAES 1162	Ice Skating
EDUPAES 1169	Martial Arts Forms
EDUPAES 1178	Swimming
EDUPAES 1188	Tennis
EDUPAES 1195	Yoga
ENTOMOL 3350	Social Insects
FDSCTE 1120	Wine & Beer W Cultr
FDSCTE 2200	Science of Food
FDSCTE 2410	Brewing Science
HDFS 2400	Life Span Hmn Devp
HTHRHSC 2500	Medical Terminology
HUMNNTR 2210	Science of Hmn Nt
HUMNNTR 2310	Fundamentals of Human Nutrition
HUMNNTR 3313	Food in Dif Cultrs
MEDIEVAL 4504	Arthurian Legends
MUSIC 1101	Beginning Piano
MUSIC 2208	Small Ensemble
MUSIC 2224	Aural Training
PHILOS 4900	Seminar
WGSST 1110	Gender Sex and Power