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Medical University of South Carolina College of Pharmacy

**Administration**
Philip D. Hall, Pharm.D., Dean
James H. Davis, M.B.A., Assistant Dean for Finance
Shannon J. Drayton, Pharm.D., Assistant Dean for Curriculum and Assessment
Heather Easterling, Pharm.D., M.B.A., Clinical Associate Dean for Health System Affairs
Kelly R. Ragucci, Pharm.D., Chair, Department of Clinical Pharmacy and Outcome Sciences
Cathy L. Worrall, Pharm.D., Assistant Dean for Student Affairs and Experiential Education
Patrick M. Worster, Ph.D., Chair, Department of Drug Discovery and Biomedical Sciences

**Professors**
Craig C. Beeson, Ph.D., University of California, 1993
John A. Bosso, Pharm.D., State University of New York at Buffalo, 1973
Katherine H. Chessman, Pharm.D., Medical University of South Carolina, 1986
Sandra S. Garner, Pharm.D., Medical University of South Carolina, 1989
Philip D. Hall, Pharm.D., Medical College of Virginia, 1988
Mark T. Hamann, Ph.D., University of Hawaii, 1992
Marc Lapointe, Pharm.D., Medical University of South Carolina, 1995
John J. Lemasters, M.D., Ph.D., Johns Hopkins, 1975
Jean Nappi, Pharm.D., University of Texas, 1977
Kenneth S. Patrick, Ph.D., University of Iowa, 1978
Kelly R. Ragucci, Pharm.D., University of Toledo, 1997
Edward E. Soltis, Ph.D., University of Florida, 1984
Kenneth Tew, Ph.D., University of London, 1976
Roger L. White, Pharm.D., Medical College of Virginia, 1983
Cathy L. Worrall, Pharm.D., University of Florida, 1993
Patrick M. Worster, Ph.D., University of Nebraska Medical Center, 1987

**Associate Professors**
Nicole Bohm, Pharm.D., University of Florida, 2003
Kristy H. Brittain, Pharm.D., Wilkes University, 2005
Sherine Swee Lin Chan, Ph.D., University of Western Australia, 2002
Chung Jen James Chou, Ph.D., University of Washington, 2004
Thomas A. Dix, Ph.D., Wayne State University, 1983
Shannon J. Drayton, Pharm.D., University of South Carolina, 2000
Joli Fermo, Pharm.D., University of Nebraska, 1993
Ronald O. Nickel, Ph.D., University of Iowa, 1984
Anna-Lisa Nieminen, Ph.D., University of Kuopio, Finland, 1991
Yuri Peteron, Ph.D. Louisiana State University Health Sciences Center, 2004
Danyelle M. Townsend, Ph.D., University of Virginia, 2001
Donald B. West, Pharm.D., Medical University of South Carolina, 1985
Christopher Wisniowski, Pharm.D., University of Sciences in Philadelphia, 2004
Zhi Zhong, Ph.D., University of North Carolina, 1996

**Assistant Professors**
Scott Bragg, Pharm.D., West Virginia University, 2011
Jason S. Haney, Pharm.D., Medical University of South Carolina, 2007
Stephanie Erin Kirk, Pharm.D., Campbell University, 2007
Eduardo Maldonado D.V.M., Ph.D., Universidad Nacional del Sur, Bahia Blanca, Argentina, 2001
David Shirley, Pharm.D., Medical University of South Carolina, 2002
James J. Sterrett, Pharm.D., Medical University of South Carolina, 1997
Jennifer Wisniowski, Pharm.D. University of Tennessee Health Science Center, Memphis, TN, 2006

**Instructors**
James H. Davis, M.B.A., Charleston Southern University, 1995

**Deans Emeritus**
John F. Cormier, Pharm.D., Medical University of South Carolina, 1975
William H. Golod, Ph.D., Purdue University, 1957
Arnold Karig, Ph.D., Purdue University, 1971

**Emeriti Faculty**
Deborah S. Carson, Pharm.D. Medical University of South Carolina, 1982
William Alexander Morton Jr., Pharm.D., University of California at San Francisco, 1976
C. Wayne Weart, Pharm.D., Philadelphia College of Pharmacy and Science, 1974
Vision, Mission, and Core Values Statements

Vision

"Improving Health through Leadership and Innovation in Pharmacy Education, Research, and Patient Care."

Mission

The Medical University of South Carolina (MUSC) is an education, research, and service enterprise that makes the best use of state resources, student tuition, grant funds, and endowment funds to:

- Produce pharmacists at an advanced level of practice to provide pharmaceutical care and serve the health needs of SC citizens related to medications.
- Develop and apply expertise in economics, epidemiology, and health outcomes assessment to guide population-level drug policy at local, state, and federal level to make the best decisions regarding medications.
- Develop and apply research skills in biomedical sciences to discover, develop, and test new drug therapies to treat or prevent important health problems.
- Serve as a national leader in pharmacy education and research.
- Promote life-long learning for practitioners.
- Seek and welcome students, faculty and staff members regardless of factors such as gender, race, age, nationality, religion or disability and recognize the benefits of diversity.

Core Values

- We share a commitment to excellence in education, research and practice.
- We recognize and embrace the importance of professional service on a local, regional, national, and international level.
- We provide community leadership and support.
- We foster an environment where integrity, accountability, respect and collegiality are expected.
- We advance the tenet that the MUSC is a member-driven organization that has accessible administrative leadership that empowers faculty, staff, students, and alumni to shape the direction of the College.
- We actively promote diversity in an environment where students, faculty, and staff are welcome regardless of factors such as race, gender, nationality, religion, or disability.

Degree Offered

The Doctor of Pharmacy (Pharm.D.) degree is offered. This is a full-time degree program requiring four academic years, which includes introductory pharmacy practice experiences (IPPEs) and advanced pharmacy practice experiences (APPEs) that must be completed during the summer semesters. A total of 214 hours (66 hours of pre-pharmacy and 148 hours of professional program courses) are required for completion of the Pharm.D. degree.

The maximum length of time that will be allowed for a student to complete the four year Medical University of South Carolina College of Pharmacy (MUSC COP) Pharm.D professional degree program will be six consecutive academic years from the date of their original entry into the professional program. Any student who wishes to extend the time allowed for completion of the program beyond the six year limitation will be required to submit a petition request to the MUSC COP Scholastic Standing and Petitions Committee; the petition will be reviewed and a decision for a time extension will be based on the individual student circumstances.

Entrance Requirements

Admission to the MUSC is competitive and based on the applicant’s completion of Pre-Pharmacy requirements, GPA, academic record, letters of recommendation, interview evaluations, PCAT scores, honors/awards, extracurricular activities, pharmacy exposure, student personal statement concerning their goals for a career in pharmacy, and diversity statement. Applicants must complete the PCAT and have official scores reported prior to the end of the application period, on or before the application deadline published on the MUSC website in the year of anticipated admission. Applicants will apply through the PharmCAS system and complete the supplemental application for the MUSC COP through CollegeNet.

Applicants must provide an official copy of all college transcripts to PharmCAS at the time of application submission. A second transcript is required to be submitted to PharmCAS upon receipt of final fall semester grades. Subsequent transcripts are required to be submitted directly to MUSC as indicated in the supplemental application upon receipt of final spring and summer grades. As a state-supported institution, preference will be given to in-state applicants. In-state students are defined as S.C. residents and any non-S.C. resident attending a S.C. college or university. In-state status as defined here only applies to the admission process. Residency for the purpose of tuition will be determined by the University residency officer. All accepted students will be required to submit to a criminal background check prior to matriculation into the program.

Pre-Pharmacy Course Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Physics</td>
<td>3</td>
</tr>
<tr>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td>8</td>
</tr>
<tr>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>English Literature/Composition</td>
<td>3</td>
</tr>
<tr>
<td>Public Speaking/Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>Economics</td>
<td>3</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts Electives</td>
<td>9</td>
</tr>
<tr>
<td>Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>66</td>
</tr>
</tbody>
</table>

All pre-pharmacy course requirements must be successfully completed prior to the fall semester of MUSC professional year one.
Policy for International Admissions to the PharmD Program

The MUSC COP is welcoming to international students within the policy shown below. Individual Pharm.D. program applicants who meet these requirements may apply.

The MUSC also considers a limited number of international applicants to the Pharm.D. program who have completed at least a five-year Bachelor of Science in Pharmacy degree and when there is a prior written agreement between the MUSC and an international sponsoring university, government, or agency (International Partnership Program).

Individual International Applicant Requirements

1. At least 42 hours of MUSC prerequisite courses must have been completed at a college or university accredited in the United States (no on-line courses allowed). All English language courses must be completed at a college or university accredited in the United States.
2. An international student admitted to the College must be proficient in English with a score of at least 550 on the Test of English as a Foreign Language (TOEFL) paper based exam, 77 on the internet-based TOEFL, or 210 on the computer-based TOEFL.
3. Applicants must be eligible to receive a Pharmacy Intern Certificate based on the South Carolina Board of Pharmacy requirements. The Pharmacy Intern Certificate is a requirement for students to complete the Introductory and Advanced Pharmacy Practice Experiences portion of the Pharm.D. curriculum.
4. Students who have attended post-secondary educational institutions, colleges or universities outside of the United States are required to submit a professional credential evaluation of all work completed. This is generally referred to as a course-by-course transcript evaluation. A course-by-course transcript evaluation should be sent directly to the Office of Enrollment Management from the evaluation service. We will consider an evaluation from a member of the National Association of Credential Evaluation Services (NACES). The web address is www.naces.org
5. Any student currently enrolled in a term or semester should contact the evaluation service to complete a partial evaluation. A final evaluation will be required prior to enrollment. A fee from the student is required for the evaluation of credentials. The payment and all contact regarding this process is done directly with the evaluation service of your choice. We will consider an evaluation from a member of the NACES.
6. Official documents (photocopies are acceptable) certifying that the student will have sufficient funding to attend the MUSC COP for one academic year are required. This evidence will be used to issue the student an immigration document (I-20 or DS-2019) which will be required to obtain the F-1 or J-1 student visa at a US embassy or consulate. Permanent residents are not required to provide this information. International students may not be eligible for student loans through the Free Application for Federal Student Aid (FAFSA) process. All international students will be considered out-of-state during the admissions processes and for tuition purposes.
7. The applicant is responsible for obtaining a proper VISA, if accepted.
8. Applicants admitted to the Pharm.D. program must comply with all student policies and requirements as detailed in the MUSC Academic Bulletin and all admission procedure requirements including a background check and health/immunization policies.

Below is the contact information of two companies that frequently provide us with evaluations.

Josel Silny & Associates, Inc.
International Educational Consultants
7101 SW 102 Avenue
Miami, FL 33173
Web: www.jsilny.com
Phone: 305-273-1616 305-273-1616

World Education Services, Inc.
P.O. Box 5087
Bowling Green Station
New York, NY 10274-5087
Web: www.wes.org
Phone: 212-966-6311 212-966-6311

International Partnership Program Applicant Requirements

International Partnership Applicants MUSC Pharm.D. program may apply only after a written agreement between the MUSC and the international sponsoring university, government, or agency has been completed. The number of international partnership applicants admitted each year will be determined by MUSC, and a signed partnership agreement does not guarantee admission of individual applicants. For admission of international BS degree pharmacists, applicants must meet admission criteria shown below. The MUSC may grant advanced status, depending on the individual’s academic record or practice experience. International applicants must have graduated within ten years of the date of application.

1. An international partnership program student admitted to the College must be proficient in English with a score of at least 550 on the TOEFL paper based exam, 77 on the internet-based TOEFL, or 210 on the computer-based TOEFL.
2. Applicants must be eligible to receive a Pharmacy Intern Certificate based on the South Carolina Board of Pharmacy requirements. The Pharmacy Intern Certificate is a requirement for students to complete the Introductory and Advanced Pharmacy Practice Experiences portion of the Pharm.D. curriculum.
3. Students who have attended post-secondary educational institutions, colleges or universities outside of the United States are required to submit a professional credential evaluation of all work completed. This is generally referred to as a course-by-course transcript evaluation. A course-by-course transcript evaluation should be sent directly to the Office of Enrollment Management from the evaluation service. We will consider an evaluation from a member of the NACES. The web address is www.naces.org.
4. Official documents (photocopies are acceptable) which certify that the student will have sufficient funding to attend the MUSC COP for one academic year are required. This evidence will be used to issue the student an immigration document (I-20 or DS-2019) which will be required to obtain the F-1 or J-1 student visa at a US embassy or consulate. If you are a permanent resident, you do not need to provide this information.
5. The applicant is responsible for obtaining a proper VISA, if accepted.
6. Applicants admitted to the Pharm.D. program must comply with all student policies and requirements as detailed in the MUSC Academic Bulletin and all admission procedure requirements including a background check and health/immunization policies as well as University requirements.
Below is the contact information of two companies that frequently provide us with evaluations.

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Phone: 305-273-1616 305-273-1616

World Education Services, Inc.
P.O. Box 5087
Bowling Green Station
New York, NY 10274-5087
Web: www.wes.org
Phone: 212-966-6311 212-966-6311

Technical Standards of the Medical University of South Carolina College of Pharmacy

One of the primary missions of the College of Pharmacy is to prepare outstanding pharmacists and pharmaceutical scientists to meet the health care needs of the state and society and to enhance the delivery of essential pharmacy services for all citizens. The faculty of the MUSC COP strives to deliver an education that will, through the graduates of the Pharm.D., attain the highest levels of this goal.

The professional program leading to the Pharm.D. degree and eligibility for pharmacist licensure requires a certain level of cognitive, behavioral and technical skill and ability inherent in a professional education. These principles and standards hold for admission, progression, retention and completion of the program. The primary role of the pharmacist is to provide safe and effective health care to the patients served. Patient safety must be considered in the selection and education of student pharmacists. In order to foster patient safety, the MUSC COP requires all student pharmacists to demonstrate the ability to meet the minimum standards set forth herein. Standards are developed as criteria to achieve the Pharm.D. degree in preparation for licensure as a practicing pharmacist and for postgraduate professional training and education in any of the varied fields of pharmacy.

Student pharmacists must reasonably contribute to a safe environment through their personal physical and mental health and social behavior. Students must complete the academic program in a reasonable length of time, must be able to acquire a pharmacist intern license upon matriculation into the program, and maintain the pharmacist intern license during their educational program, and must be eligible for a pharmacist license after they complete the Pharm.D. program.

All students are expected to successfully fulfill the same core educational requirements. Reasonable education-related accommodations will be provided according to our academic accommodations policy.

The five standards listed below describe the essential functions students must demonstrate in order to fulfill the requirements of a general pharmacy education, and thus are prerequisites for entrance to, continuation in, and graduation from the MUSC COP. A student must meet or exceed the required aptitude, abilities, and skills outlined below. Certain chronic or recurrent illnesses and problems may interfere with didactic studies, delivering or providing patient care or compromise patient safety and may be incompatible with pharmacy training or practice.

Technical Standards

Observation: Observation necessitates the functional use of visual, auditory and somatic senses. Students must have the ability to observe and evaluate, in classrooms and patient care areas, demonstrations, experiments and patients, including performing physical assessments. Observation of the technical quality of pre-manufactured as well as compounded medications is essential.

Communication Skills: As appropriate for each stage of their education, student pharmacists must be able to communicate effectively and efficiently in oral and written English, to hear, and to listen to patients in order to elicit information; describe changes in mood, activity, and posture, and perceive verbal as well as non-verbal communications. Students must also communicate effectively and efficiently in oral and written English, to hear, and to listen to faculty, staff, other health care professionals, and preceptors. Communication includes not only speech, but also reading, writing, hearing, and computer literacy. They must be capable of completing professional communication activities in a timely manner.

Motor: Student pharmacists must have the coordination of muscular movement with accommodation, if necessary, to undertake the preparation of all routine forms of medication orders, the use of diagnostic equipment for patient assessment, and the direct delivery of patient therapies. Such actions require coordination of both gross and fine muscular movement, equilibrium, and functional use of the senses of touch and vision.

Intellectual, Conceptual, Integrative and Quantitative Abilities: As appropriate for each stage of their education, student pharmacists must demonstrate a fundamental and continuing ability to use analytical reasoning to independently and in collaboration with a health care team synthesize knowledge, solve problems and explain health care situations. Information must be obtained, retrieved, evaluated and delivered in an efficient and timely manner. Students must be able to demonstrate good judgment in patient care and assessment and have the ability to incorporate new and changing information obtained from the practice environment.

Behavioral And Social Attributes: Student pharmacists must demonstrate professional and ethical demeanor appropriate to their educational level. Students must be able to function within the regulatory and institutional limits of the educational environment and modify behaviors based on criticism. Students must demonstrate compassion and integrity and a concern for others. This requires responsibility for personal action and emotional stability under the stressful conditions that may come from their professional education.

Individuals with questions or concerns about their ability to meet these standards are encouraged to contact the Dean for Student Affairs.
**Transfer Admission**

Applications for transfer students from other accredited professional pharmacy programs into the college’s professional program will be evaluated on an individual basis. The student applying for transfer must be in good standing in their current program and a position must be available in the MUSC program for any application to be considered.

**Concurrent Degree Programs**

The MUSC offers two concurrent degree programs with the Pharm.D. degree including:

- Pharm.D./Masters in Business Administration (MBA)
- Pharm.D./PhD

**Residency Preparation Program**

The MUSC offers a Residency Preparation Program to guide students in pursuit of post-graduate residency training. This program includes a list of requirements for completion including elective didactic coursework and clinical rotations as well as activities outside the classroom (scholarship/research projects, clinical competitions, student and pharmacy organization leadership and participation, seminar programs, etc.). The Residency Preparation Program is optional and students may discontinue their participation at any time.

**Academic Policies**

For didactic coursework merit grades are assigned on a continuous scale ranging from 0 to 4 points (see below).

<table>
<thead>
<tr>
<th>Raw Score</th>
<th>Merit Grade</th>
<th>Raw Score</th>
<th>Merit Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>95</td>
<td>4.0</td>
<td>81</td>
<td>2.6</td>
</tr>
<tr>
<td>94</td>
<td>3.9</td>
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<td>93</td>
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<td>91</td>
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<td>89</td>
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<td>70</td>
<td>1.0</td>
</tr>
<tr>
<td>83</td>
<td>2.8</td>
<td>&lt; or = 69</td>
<td>0.0</td>
</tr>
<tr>
<td>82</td>
<td>2.7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Courses in which students earn a merit grade of zero must be repeated.
- P (Pass) and NP (no pass – fail) indicate performance in courses offered as Pass-Fail options. The Pass-Fail option is only used for introductory pharmacy practice experiences and elective courses which are specified as Pass-Fail.
- The following link contains the policy for course withdrawals: [http://academicdepartments.musc.edu/esl/bulletin/acad_policies/grading.html](http://academicdepartments.musc.edu/esl/bulletin/acad_policies/grading.html). An incomplete (IN) is assigned at the discretion of the course coordinator when, in the course coordinator’s judgment, a student does not complete some portion of the assigned work in a course. Students must fulfill the remaining course requirements before the end of the next formal grading period (i.e., fall, spring, summer) to replace the incomplete grade with a final grade. Failure to complete the remaining coursework within the specified time period will result in a final merit grade of zero for the course. A grade of incomplete cannot be carried into the fourth professional year. Requirements to remove the incomplete and receive a final course grade must be fulfilled prior to the start of advanced pharmacy practice experiences in the fourth professional year.
- Students must have no course deficiencies and must meet all progression guidelines as defined under the MUSC Scholastic Standing Guidelines in order to begin their advanced pharmacy practice experiences at the end of the third professional year.
- Course coordinators and course faculty will identify the specific course requirements that will be utilized to determine student performance (i.e. tests, reports, class participation, group projects). This information should be provided to students in the course syllabus at the beginning of the course.
- In cases where a student must repeat a course, both grades will remain in the student academic record and will be factored into the overall grade point average (GPA).

**Academic Accommodations**

- The Dean for Student Affairs serves as the College’s disabilities coordinator. Students seeking an academic accommodation should contact this individual to request an academic accommodation. Students are required to submit documentation justifying the accommodation, which will be reviewed by Counseling and Psychological Services (CAPS) and/or Student Health Services (SHS). CAPS and/or SHS will provide recommendations regarding the accommodation. If deemed appropriate, the student and the Dean for Student Affairs will complete the necessary Americans with Disabilities Act (ADA) paperwork, which will be filed with the University. The Dean for Student Affairs will then create an accommodation letter detailing the accommodations that have been granted for the student, which will be sent to all course coordinators for that semester. Faculty members are required by the ADA to accommodate students who have

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**Table of Contents**

- Transfer Admission
- Concurrent Degree Programs
- Residency Preparation Program
- Academic Policies
- Academic Accommodations

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6
Scholastic Standing Policies

Progression:
- In order to be eligible for promotion and graduation, students must obtain a merit grade of at least 1.0 in each professional course and maintain an overall GPA of at least 2.0. A course merit grade of zero is considered a deficiency.
- Students must remove any deficiencies by the beginning of the fall semester in order to be promoted to the next year. Students with two or less deficiencies may be able to remove deficiencies in the summer at the discretion of the course coordinator. P1 and P2 students with deficiencies will be scheduled for IPPEs in Block 3. P3 students will be scheduled to begin their APPEs in July. Requests to take classes outside of the MUSC and to receive credit for these classes requires the approval of the course coordinator and the Dean for Curriculum.
- No student will be allowed to take more than two courses in any one semester.
- If a student has deficiencies (earns a merit grade of zero) in more than two courses in any given academic year, he/she will NOT be allowed to make up any of those courses during the summer session and must repeat those courses during the next academic year. If the student is on probation, he/she will be dismissed. If the student is not on probation, he/she will be suspended and placed on academic probation for one academic year at the beginning of the next fall semester.
- If a student has deficiencies (earns a merit grade of zero) in more than four courses during any given academic year, he/she will be dismissed from the pharmacy program.
- No student will be allowed to take a required course (except an IPPE or APPE) for the first attempt in a summer session.
- If a student fails to achieve a merit grade of 1.0 or better in an elective course, the student is encouraged, but not required, to re-take the elective course. However, the student must successfully complete a minimum of eight hours of electives by the end of the third professional year.
- To enter the fourth professional year, all students must have successfully completed all professional course requirements, including elective courses, by the end of the spring semester of the third professional year.
- Students with a deficiency (earns a merit grade of zero) in more than one APPE will be dismissed from the program.
- Students who earn a course deficiency in a fall semester course will not be allowed to hold office in any professional organization or class at the College or University level for the following spring semester. Students who earn a course deficiency in a spring semester course will not be allowed to hold office in any professional organization or class at the College or University level for the following fall semester. A current or incoming student leader who fails under either of the situations described above will be required to resign from any leadership position(s).
- Course withdrawals and leaves of absence require the approval of the Dean’s Office. Compelling circumstances must be evident. Students who withdraw from a course after the established drop date will receive a grade of WP (withdraw passing) or WF (withdraw failing), depending on their grade in the course at the time of the withdrawal from the course. If the course coordinator approves the withdrawal request, this grade will not affect the student’s overall GPA. If the course coordinator does not approve the withdrawal request, a WF will be calculated as a zero and will affect the student’s overall GPA. The following link contains the full policy regarding withdrawals: http://academicdepartments.musc.edu/ed/academic_policies/grading.html.
- Students are required to register for and successfully complete all required coursework in a specific professional year in order to register for courses and progress to the next professional year in the curriculum.

Suspension:
- Suspension means that a student will be prohibited from advancing in the curriculum for one calendar year. Students will be suspended if they fail to remove any deficiencies by the beginning of the fall semester.
- A suspended student may repeat a required course once in order to remove a deficiency. Additionally, the student may have up to eight hours of electives to improve the overall GPA.
- A suspended student who meets the requirements for promotion will be removed from suspension, placed on academic probation for one academic year (see definition below), and allowed to progress in the curriculum.
- Suspended students will not be allowed to seek or hold office in any professional organization or class at the College or University level.
- Failure to remove all deficiencies and attain an overall GPA of 2.0 or higher by the conclusion of a period of suspension will result in dismissal (see definition below) from the College.

Academic Probation:
- Students on academic probation must demonstrate their ability to consistently and satisfactorily progress in the curriculum, by maintaining a minimum overall GPA of 2.0 and meeting promotion requirements for one academic year.
- Students on academic probation will not be allowed to seek or hold office in any professional organization or class at the College or University level.
- Failure to satisfy the terms of probation will result in dismissal.

Dismissal:
- Dismissal is the mandatory and permanent withdrawal of a student.
- After dismissal, the College will not accept any course work from the student to complete the Pharm.D. program.
- Students will be dismissed if they fail to remove all deficiencies, fail to attain an overall GPA of 2.0 or higher by the conclusion of a period of suspension, or if they fail to satisfy the terms of probation.
- A student may repeat a course in the professional curriculum only once. Failure to remove the course deficiency after the second attempt will result in the student’s dismissal.
- If a student has deficiencies in more than four courses during any given academic year, he/she will be dismissed from the program.
- Students with a deficiency in more than one APPE will be dismissed from the program.
- Students may be dismissed for lack of professionalism and/or professional misconduct.

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Petitions:
- Any student seeking an exception to the academic standards may petition the College’s Scholastic Standing and Petitions Committee. Students have ten calendar days from the date they receive written notification of their deficiency, suspension, or dismissal to submit a petition to the Dean for Student Affairs, who serves as the administrative liaison and provides all documents to the Chair of the Scholastic Standing and Petitions Committee. A petition may be approved or denied based on the merits of the individual situation.
- The Scholastic Standing and Petitions Committee does not have the authority to change grades assigned by a faculty member or preceptor.
- Students have the right to appeal the decision of the Scholastic Standing and Petitions Committee to the Dean. Appeals must be received in writing within seven days of the notification of the sanction. The Dean’s decision is final.

Course Policies
- Students are obligated to complete all assigned work promptly, to attend class regularly, and to participate in class discussions and group exercises.
- Attendance is expected for all classes. The course coordinator may choose to establish a specific attendance policy in an individual course. This policy, along with consequences of violation of this attendance policy, should be presented to students enrolled in the class at the beginning of the semester as part of the course syllabus. The course coordinator may choose to exact a grade penalty for excessive absences as defined in the specific attendance policy.
- Recordings will be available for required courses; however, there may be some portions of classroom activities that are not recorded at the discretion of the lecturer. Recordings are not to be used as a substitute for class attendance.
- Students are required to attend 100 percent of laboratory course meetings.
- If a scheduled test must be missed due to unforeseen circumstances, the student must notify the Course Coordinator by phone and e-mail prior to the test, if possible, and the student must obtain an excuse from the Dean for Student Affairs.
- The Dean for Student Affairs may excuse students for significant absences (usually related to health issues). A medical excuse or other appropriate documentation is required to be submitted if an absence occurs on an exam day unless preapproved through the Dean’s Office. All other class absences must be approved by the Course Coordinator.
- If an absence is excused, the student will either be given a makeup exam or the other test grades will be increased proportionally to compensate for the missing grade. This decision will be at the discretion of the course coordinator.
- The Course Coordinator will enter grades into the University records system for each specific course. After each major examination, this faculty member is expected to contact individual students who have scored lower than expected. Students who are aware of a computer malfunction prior to an exam day must contact the course coordinator or course syllabus has indicated an alternate policy.
- The Course Coordinator will enter grades into the University records system for each specific course. After each major examination, this faculty member is expected to contact individual students who have scored lower than expected. Students who are aware of a computer malfunction prior to an exam day must contact the course coordinator or course syllabus has indicated an alternate policy.
- Electronic test scheduling may be used for student exams. Exception: (when authorized to be used by course coordinator) must not be capable of storing equations, graphs, charts, etc. Only non-programmable calculators are allowed - no cell phones, watches or similar devices are to be used as calculators during exams. No additional notes or written materials may be engraved, adhered, or otherwise attached to a calculator being used during an exam.
- Hats are not to be worn during examinations. Exception: visors and baseball caps (or similarly brimmed caps) may be worn with the brim turned around backward.
- Students will be assigned a password to access electronic exams. It is highly recommended that students use a power cord during exams. If the student forgets his/her power cord, he/she assumes responsibility for a lost exam. For a student who has technical problems in accessing or completing an electronic exam, a penalty may be given for providing him/her with a print copy. The penalty, if any, is specified in the course syllabus. Students must provide and use a privacy screen on their computer on exam days.

Test Scheduling Policies
- A test is defined as a major examination of material in a course (usually administered no more frequently than every two weeks, except in summer session). These policies do not apply to written report dates, scheduled oral presentations, or weekly quizzes. No tests, except in lab courses, will be given during the week prior to final exams.
- Students attending professional meetings may be excused from tests. In these cases, the course policy for excused test absences, as defined in the course syllabus, will be applied. Students who will miss class due to attendance at an event, which has been designated as a College-sanctioned event, will be granted an excused absence. The Course Coordinator must be notified in writing of the scheduled absence at least four weeks in advance or on the first day of the semester.
- P1 students are required to attend an e-testing orientation and to confirm that the appropriate software is loaded onto their laptop. Students are responsible for any lost time in completion of an exam due to inexperience with the process for running the security software and/or accessing the exam.
- Final examinations will be scheduled in accordance with the final exam schedule.
- This test policy may be suspended due to severe weather or natural disaster to facilitate rescheduling of missed classes and tests.
- For room scheduling purposes only, a three-hour block of time will be allotted for final exams. Course coordinators will determine a reasonable length of time for completion of the final course exam. The course coordinators are not required to provide three hours for final exams if it is unreasonable given the exam structure.

Minimum Required Examination Procedures
- Examinations may be proctored by a faculty or staff member of the College. At least one proctor is required to be present in the exam room at all times.
- No examination materials (including scratch paper) are to leave the room under any circumstances during the actual examination period or during an examination review.
- Book bags are to be placed at the front or sides of the classroom away from all students for the duration of the examination. The only items allowed at the student’s desk are: pencils, scratch paper, and laptops. Failure to bring a laptop with computer privacy screen to a scheduled exam is considered an unexcused absence. A merit grade of zero will be recorded for an unexcused exam absence, unless the student has contacted the course coordinator regarding extenuating circumstances or the course coordinator or course syllabus has indicated an alternate policy. If a laptop is malfunctioning prior to an exam, the student is required to provide proof that his/her computer is malfunctioning. Students who are aware of a computer problem prior to the exam must contact the course coordinator at least 30 minutes prior to the exam.
- Cell phones, iPods, iPads, watches and similar electronic devices are to be turned off and stored in book bags during examinations and until exiting the room.
- Calculators are not allowed at the student's desk if using ExamSoft for testing. Students are required to use the calculator in ExamSoft. If a student is taking a paper exam the calculator (when authorized to be used by course coordinator) must not be capable of storing equations, graphs, charts, etc. Only non-programmable calculators are allowed - no cell phones, watches or similar devices are to be used as calculators during exams. No additional notes or written materials may be engraved, adhered, or otherwise attached to a calculator being used during an exam.
- Hats are not to be worn during examinations. Exception: visors and baseball caps (or similarly brimmed caps) may be worn with the brim turned around backward.
- Students will be assigned a password to access electronic exams. It is highly recommended that students use a power cord during exams. If the student forgets his/her power cord, he/she assumes responsibility for a lost exam. For a student who has technical problems in accessing or completing an electronic exam, a penalty may be given for providing him/her with a print copy. The penalty, if any, is specified in the course syllabus. Students must provide and use a privacy screen on their computer on exam days.
Students are expected to arrive on time for scheduled exams. Arriving late to an exam is unprofessional and is considered a violation of the professionalism policy. Grade sanctions for students arriving late to an exam are specified in each course syllabus. Students who are repeatedly late for exams will be referred to the Student Policy and Professionalism Committee. If a student is late to an exam for an extenuating circumstance, proof must be provided to the Dean for Student Affairs in order to prevent sanctions.

- Questions relating to exam content are strictly prohibited during the examination. Questions regarding suspected typographical errors on the test (e.g., omissions, mis-numbering, defective exam pages, etc.) are permitted.
- Food or beverages are not allowed during examinations. All food containers and beverages should be stored in book bags while in the exam classroom.
- Restroom breaks are discouraged. If restroom breaks are needed during an examination, only one student at a time will be allowed to leave the exam room.
- Cheating in any form is not allowed and will be considered an honor code violation with immediate referral to the College’s Honor Council.
- Students should take all personal items and exit the exam room upon completion of the exam. Students are not permitted to reenter the exam room until all students have completed the exam.

### Student Advisement/Career Mentorship Program

- Each professional class (P1, P2, P3, P4) will be assigned a faculty class advisor. This class advisor will be actively involved in orientation and should actively promote professionalism within the class. The class advisor should also serve as a problem solver for the class. The advisor may meet with class officers to plan class events such as community outreach activities. The faculty advisor follows the class throughout their academic career at the MUSC. The class advisor is appointed by the Dean for Student Affairs with approval by the Chair of the department of the faculty member.
- Faculty, preceptors and alumni will be encouraged to serve as career mentors for students. Career mentors serve as a contact person and career advisor to aid students in exploring the various career paths available upon graduation. Mentors also assist students in selecting elective courses to help prepare them for their future career path. The Dean for Student Affairs maintains an updated list of career mentors for the College, which is distributed to students each fall.
- All P1, P2 and P3 students participate in the College’s Career Mentoring Program. Students are required to complete the APHA Career Pathways Evaluation Program survey each fall and are encouraged to use their survey results to select a minimum of six career exploration activities to pursue during the academic year. Reports of these activities are required at the end of each semester in addition to a reflection at the end of the academic year.
- The Dean for Curriculum and Assessment provides information to students about concurrent degree programs and electives offered by the College.
- Course coordinators, teaching faculty, the faculty class advisor, and the Deans of the College are readily available to provide support to students if academic advice or personal support is needed.

### Pharmacy Intern Certificate

All accepted students will be required to obtain a Pharmacy Intern Certificate from the South Carolina Board of Pharmacy. This certificate must be obtained upon matriculation into the Pharm.D. program. If a student's Pharmacy Intern Certificate is suspended, revoked, or voluntarily surrendered, the student may be suspended from the College.

### Experiential Rotations

Experiential rotations are assigned using software designed for this purpose. Students may enter preferences for physical location, rotation sites, and preceptors, but preferences are not guaranteed. The Experiential Department will attempt to place students at a site that is within one hour driving distance each way from their permanent or temporary residence in South Carolina. All students should be prepared to arrange their own housing for introductory pharmacy practice experiences (IPPEs) or advanced pharmacy practice experiences (APPEs), if necessary, due to limited rotation sites. In addition to policies provided within the Academic Bulletin for professional courses and practice experiences, students must abide by the experiential manuals respective to their IPPE or APPE rotations.

### Requirements for Practice Experiences:

- Criminal background checks may be required for students prior to beginning their introductory and advanced pharmacy practice experiences. A copy of the background check will be provided to a rotation site upon their request. The College provides all students with student liability insurance coverage for all practice experiences.
- Prior to beginning the Community IPPE, students are required to have and provide documentation of an active South Carolina intern certificate (additional state-specific intern certificates may be required for out-of-state practice experiences), health insurance, immunization documentation, and completed MyQuest annual on-line training modules. Additional information may be required by specific sites such as drug screens, confidentiality agreements and documentation of specific training required by the site.
- Prior to beginning the Hospital IPPE, students are required to have and provide documentation of an active South Carolina intern certificate (additional state-specific intern certificates may be required for out-of-state practice experiences), health insurance, Basic Life Support for the Healthcare Provider, media fill verification, and completed MyQuest annual on-line training modules. Additional information may be required by specific sites such as drug screens, confidentiality agreements and documentation of specific training required by the site.
- Students must have no course deficiencies and must meet all progression guidelines as defined under the Scholastic Standing Policies in order to begin their Advanced Pharmacy Practice Experiences (APPEs) at the end of the third professional year.
- Prior to beginning APPEs, students must have current/updated documentation of all items required for the Hospital IPPE. Additional information may be required by specific sites such as drug screens, confidentiality agreements and documentation of specific training required by the site.
- Students must successfully complete nine APPEs during the fourth professional year. Students may opt to complete a tenth rotation. If added, the tenth rotation becomes a permanent part of the student’s rotation schedule and must be successfully completed to satisfy the APPE curriculum.
- Students with a “problem” background check should have records expunged before beginning any practice experience. If a record cannot be expunged, the College will make a reasonable effort to place the student at a site. Many sites now require background checks and placement is not guaranteed. Students are responsible for clearing any “problems” found in criminal background checks.
- Expenses for additional background checks, immunizations, drug screenings and other documentation and training requirements required by an assigned practice site are the responsibility of the student. Rotations may not be rescheduled based on the site’s onboarding requirements.
Attendance Policy for Practice Experiences:

- There are no excused absences for students participating in IPPEs; any time missed must be made up at the preceptor’s convenience. More specific information regarding attendance policies for IPPEs will be provided by the Experiential Department and in the respective Experiential Manual. A minimum of 160 rotation hours must be completed for each IPPE.
- Students will have a maximum of five days of excused absences during their APPE. Absences cannot be saved and taken all at once. No more than two days may be excused during one APPE. Absences cannot be saved for the last days of an experience to facilitate an early exit from the practice experience. Failure to meet experience attendance requirements will result in a failing grade, unless the individual situation warrants an incomplete or withdrawal. In these situations the entire practice experience must be repeated. When absences occur on a rotation for any reason, a minimum of 160 rotation hours must be completed for each APPE to avoid a failing grade. More specific information regarding rotation hours and attendance policies for APPEs is provided by the Dean for Experiential Education and in the respective Experiential Manual.

Grading Policy for Practice Experiences

- The MUSC University Grading Scale is utilized for all practice experiences.
- IPPEs are pass/fail. APPEs receive merit grades.
- Completion of all required assignments in E*Value is required prior to posting of grades. A penalty will be assessed for non-compliance with experiential program requirements (please refer to the policy in the Experiential Manuals).
- The preceptor assigns the rotation grade. The final grade may be reduced by the Experiential Office in the event of a penalty for administrative non-compliance as defined in the Experiential Manuals.
- Students earning a failing grade in an IPPE or a merit grade of zero in an APPE must remediate the course, and pay an additional tuition charge.
- Students who elect to complete ten APPEs must complete an 11th APPE in the event of a rotation deficiency with an additional tuition charge.
- Students with a deficiency in more than one APPE will be dismissed from the program.

Standards of Conduct for Treatment of Trainees

MUSC strives to impart the values of professional and collegial attitudes and behaviors in interactions among members of the University community. MUSC prohibits attitudes and behaviors toward students, residents and fellows that are unfavorable to the development of mutual respect. The University has established Standards of Conduct for Treatment of Trainees that are published in the MUSC Student Handbook. The Standards of Conduct policy provides examples of misconduct and outlines procedures trainees can use to address mistreatment. The Standards of Conduct policy can be viewed at [http://academicdepartments.musc.edu/esl/studentprograms/studenthandbook/Policies/standardsofconduct.html](http://academicdepartments.musc.edu/esl/studentprograms/studenthandbook/Policies/standardsofconduct.html). Students may contact the Dean for Student Affairs and Experiential Education for questions or concerns related to this policy.

Student Dress Code

- The College’s student dress code is mandatory for all practice laboratories, all introductory and advanced pharmacy practice experiences, grand rounds, and professional events where students are representing the College.
- Students must wear their ID badge at all times while on campus. Students must adhere to individual institution/pharmacy policies regarding site-specific ID badges.
- All students are expected to be clean, neatly groomed and dressed in a professional (conservative) manner for experiential rotations and laboratory experiences. Students not wearing clothing deemed appropriate by a laboratory instructor will be warned at the first offense. A second offense may result in a grade reduction (please see specific laboratory syllabi for penalties related to inappropriate dress). In the experiential setting, students may be dismissed immediately if dressed inappropriately and asked to return in appropriate dress. Students will be required to make up this time away from rotation (please refer to the attendance policies in the experiential manuals).
- The following guidelines are appropriate for dress during laboratory and experiential rotations:
  - Students are required to wear a white, long sleeved, jacket-length lab coat and ID badge attached at the collar or chest pocket of the lab coat. Non-MUSC/commercial logos and badges are not permitted on lab coats. Men are required to wear a dress shirt with tie, dress slacks, dress socks, and close-toed dress shoes. Women are required to wear a dress blouse/over sweater with a skirt or dress slacks, or a dress and close-toed dress shoes. No attire (e.g., short skirts or dresses, tight fitting clothing, low-cut blouses), accessories (e.g., large jewelry, sunglasses) or behaviors (e.g., chewing gum, wearing excessive cologne or perfume) that may be deemed unsafe or distracting to other students, instructors, preceptors, health care team members or patients will be permitted.
  - Please note that individual practice sites may have a different dress code requirement. Students must adhere to specific preceptor/site requirements.
  - Appropriate dress is also expected in the classroom. Attire that may be deemed distracting to students, faculty or others (e.g., short shorts, skirts or dresses, tight fitting clothing, low-cut blouses, halter tops, midriffs, sagging pants/shorts, substantially exposed undergarments) should not be worn in the classroom.

Student Honor Code

- Information regarding the Honor Code for students enrolled at the MUSC is provided at the following website: [http://academicdepartments.musc.edu/esl/studentprograms/honorcode/](http://academicdepartments.musc.edu/esl/studentprograms/honorcode/). Any student suspected of an honor code violation should be reported to the College of Pharmacy Honor Council President or Faculty Advisor.

Student Professionalism Policy

The faculty of our College has approved curricular outcome competencies that each student is expected to master. One of the most important is the demonstration of personal values and ethical principles in all professional and social contexts. Most students come into our program with a well-developed value system that is further refined as they grow through their college experience in general and their professional education. As a result, there is little emphasis on disciplinary procedures. However, to minimize ambiguity with regard to unprofessional and unacceptable behaviors, professionalism policies are presented here in some detail.
Professional Standards
The foremost privilege and responsibility of the profession of pharmacy is to selflessly serve humanity, follow state and federal rules and regulations with regards to the pharmacy profession, and promote the public health and welfare. Given such important privilege and responsibility, student pharmacists are expected to present and conduct themselves in a manner commensurate with a health care professional.

Expected professional behavior includes but is not limited to the following:

- Student attendance for rotations, lectures, laboratory sessions, and meetings is expected and students must adhere to attendance policies enacted by the course syllabus. Students are expected to be punctual and to remain present until the conclusion of the activity. For courses or meetings in which attendance is mandatory, no student may sign in for another student for class attendance purposes.
- In all academic and professional settings, students are expected to be alert and prepared to handle all assigned tasks and duties. When students are assigned to work with others, it is expected that the student will participate and complete their responsibilities with regard to the project.
- In all academic, professional, and social settings, it is expected that students will be courteous, respectful, non-disruptive, and display positive demeanor.
- The expression of criticism or issues, either in person, in writing (letter or email), or telephone will be done in a non-threatening, non-abusive, and positive manner. Students should follow the College’s Student Grievance Policies in regards to individual or class issues.
- In professional settings, students will always dress in accordance with the College’s Dress Code.
- In all academic, professional, and public settings, it is expected that students will display the highest level of honesty and ethics. If a student suspects that another student has committed a form of academic dishonesty, there is an obligation on the student to report the violation in accordance with the University Honor Code.
- A pharmacy student is required to uphold the dignity and honor of the profession, and to accept its ethical principles. Students shall not engage in any activity that will discredit the profession. Students are expected to follow and uphold all local, state and federal laws at all times.

Social Media Policy
MUSC recognizes that social networking websites and applications are popular means of communication. Students who use these websites and applications must be aware that posting certain information is illegal. Violations of existing statutes and administrative regulations may expose the offender to criminal and civil liability, and the punishment for violations may include fines and imprisonment. Offenders also may be subject to adverse academic actions up to and including dismissal. The following actions are forbidden (i.e., are considered violations of the Student Professionalism Policy):

- Students may not discuss the personal health information of other individuals. Removal of an individual’s name does not alone constitute proper de-identification of protected health information. Inclusion of data such as age, gender, race, diagnosis, date of evaluation, or type of treatment or the use of a highly specific medical photograph (such as a before/after photograph of a patient having surgery or a photograph of a patient from a medical outreach trip) may still allow the reader to recognize the identity of a specific individual.
- Students may not report private (protected) academic information of another student or trainee.
- Students may not present themselves as an official representative or spokesperson for the institution.
- Students may not access another person’s online accounts without his/her permission.
- Students may not represent themselves as another person, real or fictitious, or otherwise attempt to obscure their identity as a means to circumvent any prohibitions listed in the Student Professionalism Policy.

In addition to these actions, the MUSC COP Student Professionalism Policy includes the following violations relevant to the use of social media:

- Knowingly distributing false information, statements, or accusations against another student, preceptor, or faculty/staff member.
- Using electronic channels of communication to disseminate inappropriate or unprofessional comments regarding peers, preceptors, faculty, staff, patients, the College, the University or a practice site.
- Verbal, written or electronic insults to the College of Pharmacy administration, faculty, preceptors, staff, students, or patients.
- Threats or acts of physical violence to MUSC administration, faculty, preceptors, staff, students, or patients.
- Harassment, in any form, of MUSC administration, faculty, staff, preceptors, students or patients.
- Violating the confidentiality of a faculty committee by an appointed student representative serving on that committee.
- Sharing of passwords for protected sites.

Due to the prevalence of and types of information that can be displayed through social media (Facebook™, Twitter™, blogs, etc.) in today’s society, the College offers the following social media use guidelines for students. The College also recommends that students review the University Social Media Guidelines (available at http://academicdepartments.musc.edu/webcopyright/socialnetworking.html) for additional guidance on appropriate utilization of social media.

Avoid any activity on social media sites that could portray you, the College, the faculty and/or preceptors, the University or the pharmacy profession negatively. Some of the strongly discouraged actions include, but are not limited to:

- The unprofessional display of vulgarity through written comments, photos, and/or affiliations;
- The unprofessional display of language or photos that indicate discriminatory bias against any individual or group because of age, race, gender, ethnicity, national origin, or sexual orientation;
- The unprofessional display of photos or language that condone the irresponsible use of alcohol, substance abuse, or sexual promiscuity;
- Posting of inflammatory or unprofessional material on another individual’s website; and
- Display of any language that degrades or disrespects patients.

Those actions may be interpreted as violations of the Student Professionalism Policy. Furthermore, per HIPAA regulations, patient privacy must be maintained at all times regardless of the communication medium.

This policy should not be construed to impair any constitutionally protected activity, including speech, protest or assembly.
Copyright Policy
MUSC seeks to aid enrolled students by offering electronic presentations and recordings of lectures to improve student engagement and to better meet individual learning needs. With the growing use of technology, students and faculty have the responsibility to understand and observe copyright law including educational fair use guidelines, obtaining written permission, and to follow the corresponding campus University policy.

As supplemental tools, all material found in lectures is owned by the MUSC COP and is protected by United States Copyright laws. Lecture material is only available to students enrolled in the course where the content is available, and use is not permitted outside the scope of the course. Recorded lectures will only be posted to the college-designated course medium.

Material found in the lectures may not be photocopied, screen-shot, duplicated or distributed by any student without the express, written permission from the faculty member who created the material. Video, audio, or photographic recordings of course material are strictly prohibited. Recordings, course material, and lecture notes may not be reproduced verbatim nor uploaded to publicly accessible web environments. Recordings and course material may not be exchanged nor distributed to a third party for compensation, nor for any other purpose other than personal study. An individual may individually print copies of lecture material solely for personal use under the scope of the course. Duplication or dissemination of lecture materials without authorized use may violate federal or state law and University policies.

Failure to adhere to these policies is a violation of the Professionalism Policy and may result in disciplinary action under University guidelines. For further assistance with copyright matters, faculty and students may seek guidance from the campus Library Staff or the Dean’s Office.

Procedures for Professionalism Policy Violations
Any student, faculty, staff member, or individual associated with the College’s academic programs may report a student for lack of professional behavior to the Dean for Student Affairs. Under usual circumstances, the incident should have been brought to the student’s attention and resolution attempted before reporting the incident to the Dean for Student Affairs. Upon receiving a report regarding unprofessional behavior, the Dean for Student Affairs will determine the legitimacy of the report in accordance with his/her understanding of professional standards for behavior, the severity of the incident, and the urgency by which it needs to be addressed. Depending on the nature of the behavior, the Dean for Student Affairs may act on a single behavioral report or wait to act until he/she receives multiple reports of unprofessional behavior. In cases where the Dean for Student Affairs makes the decision to forgo disciplinary action(s), he/she will inform the student of the complaint of unprofessional behavior and that future complaints may result in disciplinary action. He/she will document each complaint, such that the information remains confidential. If the Dean for Student Affairs determines that disciplinary action is warranted, each case will be addressed in the following manner:

The Dean for Student Affairs will meet with the student to counsel him/her on the importance of professionalism and strategies to correct the unprofessional behavior. These strategies may include referral to Counseling and Psychological Services (CAPS). The Dean for Student Affairs will also discuss the potential consequences for unprofessional behavior with the student. If a written warning is indicated, the student and Dean for Student Affairs will sign and date a Notification of Professionalism Policy Violation acknowledging the student’s behavior and his/her awareness of the potential consequences for similar behavior in the future. This document will be placed in the student’s file.

If the Dean for Student Affairs determines that the behavior may warrant a more stringent penalty, he/she will refer the student to the Student Policy and Professionalism Committee where the incident will be discussed further. The Committee may provide disciplinary recommendations to the Dean for Student Affairs. These recommended sanctions may include, but are not limited to, a written warning, placement on professional conduct probation, suspension from College of Pharmacy for up to one year, or dismissal from the College of Pharmacy. The Dean for Student Affairs will then enforce the final penalty.

Professional conduct probation is defined as a designated time during which a student is under an official warning that subsequent violations of the professionalism policy or University rules, regulations, or policies are likely to result in a more severe sanction which may include suspension or dismissal from the program. While on professional conduct probation, a student may be considered to be “not in good standing” and may face specific limitations, which may include, but are not limited to:

- Ineligibility for College scholarships;
- Ineligibility to hold leadership positions in student organizations, class officer positions in the College, or any University-wide leadership positions; or
- Ineligibility to receive financial support from the College to attend professional organization meetings.
- Ineligibility for assignment to practice sites considered to be specialty rotations by the Experiential Education Office. Students who are placed on professional conduct probation after receiving a specialty rotation assignment may be removed from the rotation.

If the committee recommends suspension, the student may be suspended from the College for up to one year. The same penalties for professional conduct probation apply to a student who is suspended. In addition, further issues with unprofessional behavior may result in dismissal from the College. If the committee recommends dismissal, the student may be dismissed immediately from the College.

Students have the right to appeal the decision of the Scholastic Standing and Petitions Committee to the Dean. Appeals must be received in writing within seven days of the notification of the sanction. The Dean’s decision is final.

Student Sexual Harassment Policy

The specific policies regarding sexual harassment for students enrolled at the MUSC COP are defined in the University Bulletin.

Criminal Background Check & Student Arrest Policy

The MUSC COP will conduct criminal background checks for all students accepted to the professional program. In addition, the College may conduct criminal background checks prior to pharmacy practice experiential rotations. The College may provide the results of these criminal background checks to the South Carolina Board of Pharmacy and/or the pharmacy practice sites participating in experiential rotations.

Any student who is arrested or convicted for violation of federal, state, or local laws is subject to appropriate disciplinary action by the MUSC and/or the South Carolina Board of Pharmacy. The Dean for Student Affairs and Experiential Education may immediately suspend a student from participating in experiential...
rotations until the case can be reviewed by the Dean’s Office and/or South Carolina Board of Pharmacy. Each of these entities may review the student’s case and may impose appropriate disciplinary action.

In addition, the Dean for Student Affairs and Experiential Education may immediately suspend a student from participating in experiential rotations if he/she feels a student may pose a risk to public safety due to criminal background check results, arrests, or convictions. If the student believes that the background check results are in error and can provide proof, the student will be given the opportunity to produce this proof.

- Procedures
  1. All arrests or convictions must be reported to the Dean for Student Affairs within two university business days of the event. The arrest or conviction may be reported to the South Carolina Board of Pharmacy by the College. Any student with an arrest or conviction may be placed on professional conduct probation by the Dean’s office. Depending on the severity of the charges, the Dean for Student Affairs may suspend the arrested or convicted student immediately until the charges have been resolved. The student’s case will be reviewed by the College’s Student Policy & Professionalism Committee and a recommendation for resolution will be provided to the Dean for Student Affairs.
  2. If an arrested student fails to report the arrest or conviction within two university business days, then he/she may be subject to immediate suspension or dismissal from the College.
  3. Any official documentation related to arrests or convictions must be reported to the Dean for Student Affairs within two university business days of receipt. The Dean for Student Affairs will maintain documentation of background check reports and any documentation provided by the student. This documentation will be maintained in a file separate from the student’s academic file.
  4. Any student arrested or convicted for drug or alcohol related offenses will be referred to CAPS for evaluation. The student will be required to sign a consent for CAPS to share their findings with the College. CAPS will make recommendations to the College, which will be enforced. If the student is required to sign a monitoring contact for random drug screening, he/she will be responsible for all costs associated with this monitoring. The student must also comply with all monitoring requirements or risk dismissal from the program. If a student’s pharmacy intern license is suspended, revoked, or voluntarily surrendered, the student may be suspended from the College.
  5. Further sanctions that may be enforced can be found in the Chemical Impairment Policy below.

Chemical Impairment Policy

The specific policies for alcohol and other drug abuse prevention and intervention for students enrolled at the MUSC are defined in the University academic bulletin.

Health care professionals have a responsibility to the public to practice their professions free from chemical impairment or dependency. Student pharmacists at the MUSC COP begin providing care to patients from the time they enter the College and, thus, are viewed as members of the pharmacy profession who are in training.

Chemical dependency is defined as psychological or physiological dependence on a psychoactive substance. Potential substances include alcohol, prescription and over the counter drugs (obtained legally or illegally), and street drugs.

The purpose of this policy is to facilitate the identification of a student who may be chemically impaired, promote appropriate treatment and recovery of these individuals, and prevent patient harm from occurring.

All MUSC COP students are subject to random drug screenings throughout the Pharm.D. program. Students may be selected at any time to submit to a random 10-panel drug screen. There will be no cost to the student for random drug screenings. Upon notification by the Dean’s office, the student must report to MUSC Employee Health at 57 Bee Street between 7:30 AM-2:30 PM and submit a urine sample. The student must report for testing within 24 hours of notification. Failure to report for testing within 24 hours will be considered a positive result. Any student with a positive test result will be referred to CAPS and to the College’s Professionalism Committee.

Drug Screening Procedure

- Students must bring a government-issued picture ID (e.g., Driver’s License, Military ID, or Passport). Work or student ID badges are not acceptable forms of ID.
- Students must be prepared to produce an adequate urine specimen within three hours.
- Students have three attempts to produce a specimen.
- Drug screen results will be noted as positive (failed) if the student leaves the office before an adequate urine specimen has been collected.

Students who suspect that they may be chemically impaired are encouraged to voluntarily report themselves to the Dean for Student Affairs. It is the professional responsibility of all faculty, staff, and students to report or intervene in cases when they suspect a student to be chemically impaired. The Dean for Student Affairs should be notified in those cases where student impairment is suspected.

Conduct that may suggest chemical impairment includes but is not limited to:

- A decline in academic performance
- Changes in behavior
- Failure to carry out professional responsibilities
- Repeated tardiness or absenteeism
- Psychomotor deficiencies
- Observed intoxication

The Dean’s Office will refer students suspected of chemical impairment for an immediate drug screen to occur within 24 hours of notification. Any expense incurred for the drug screen(s) will be the responsibility of the student. The student will also be referred to CAPS for evaluation. The student will be required to sign consent for CAPS to share their findings with the College. CAPS will make recommendations to the College, which will be enforced.

The Dean’s office may immediately suspend a chemically-impaired student from participating in experiential rotations due to the risk posed to public safety. A file separate from the student’s academic file will be kept for documentation related to chemical impairment. The Dean for Student Affairs will maintain this separate file.
The counseling services available at CAPS are free to enrolled students. If a student is required to enter into a monitoring contract with CAPS, the College will be notified by CAPS if the student fails to comply with any aspect of his/her monitoring contract or tests positive for the substance(s) for which he/she is being monitored (including alcohol, illegal drugs or prescription drug). Violation of a monitoring contract may lead to suspension or dismissal from the College.

Participation in a recovery program does not make the chemically-impaired pharmacy student immune to legal proceedings for criminal acts involving drug misuse, or illegal use.

The academic standing of a chemically-impaired pharmacy student will not change if the student requests a leave of absence. If the student is academically ineligible to continue in the pharmacy curriculum, a medical leave of absence will not preclude administrative action for dismissal from the College for academic reasons. In such instances the student may appeal the dismissal to the Scholastic Standing and Petitions Committee.

If a student’s pharmacy internship license is suspended, revoked, or voluntarily surrendered, the student may be suspended from the College.

Eligibility for Federal Financial Aid and Scholarships

Students found in violation of the Arrest and/or Chemical Impairment policies may jeopardize their ability to receive federal financial aid for which they might otherwise be eligible. In addition, students found in violation of any MUSC policy may be prohibited from receiving a scholarship from the College.

Student Grievance Policies

Individual Problems: When a student is experiencing a problem with any member of the College’s faculty, staff or administration, the following process should be carried out. Prior to each step in the process, the student should seek advice from his or her class faculty advisor.

1. Make an appointment with the individual with whom the problem exists, explain the problem, and try to resolve it.
2. If the problem cannot be resolved directly, the student should then contact the individual’s supervisor.
3. If the problem is still unresolved, the student should make an appointment to meet with the Dean for Student Affairs. The Dean for Student Affairs will review the complaint and intervene if College or University policies have been violated. The Dean for Student Affairs will maintain a file of all such reported grievances and their outcomes. Situations that have not been resolved at this point will be referred to the Student Grievance Committee for final review and action. Students may also file a complaint to the University using the following link: http://academicdepartments.musc.edu/esl/academics/complaint_resolution/complaint_form_fill.pdf

Class Problems: When a class feels that there is a problem affecting the class as a whole, the following process should be carried out. Prior to each step in the process, the class president should seek advice from the class faculty advisor.

1. The president should announce and hold a class meeting, identify the problem(s), clearly reduce them to writing, and ensure that the class is in agreement by simple majority vote. If so, the class president should forward this written statement to the individual(s) involved and request a meeting. If the class president is unsure of whom to contact, he/she should consult the Dean for Student Affairs.
2. If a satisfactory understanding or solution is not obtained at this level, the class president should then contact the individual’s supervisor.
3. If the problem is still unresolved, the class president should make an appointment to meet with the Dean for Student Affairs. The Dean for Student Affairs will review the complaint and intervene if College or University policies have been violated. The Dean for Student Affairs will maintain a file of all such reported grievances and their outcomes. Situations that have not been resolved at this point will be referred to the Student Grievance Committee for final review and action. Students may also file a complaint to the University using the following link: http://academicdepartments.musc.edu/esl/academics/complaint_resolution/complaint_form_fill.pdf

Severe Weather Policies

- In the event of a weather emergency which might affect class schedules, students should access the MUSC website to determine if there has been an official announcement that classes have been cancelled or delayed.
- The Dean will communicate with the Director of Communications, who is responsible for posting announcements on the front page of the College’s website and via other electronic means of communication such as Twitter. Students will also receive an email notification related to the weather emergency.
- University procedures in the event of severe weather do not apply during IPPEs and APPEs. Students are required to contact their preceptor to determine whether travel to rotation is safe and/or the rotation site is open. If inclement weather is predicted, the student should develop a plan with their preceptor in advance. Under no circumstances should the student assume that they are not to report to rotation.

Accreditation Disclosure Statement

The MUSC COP’s Pharm.D. program is accredited by the Accreditation Council for Pharmacy Education, 20 North Clark Street, Suite 2500, Chicago, IL 60602-5109, 312/664-3575; FAX 312/664-4652, web site www.acpe-accredit.org.

Accreditation Issues

Issues, questions, comments or complaints pertaining to accreditation should be directed to the Dean for Curriculum and Assessment. The College will keep a file of all communications related to accreditation. If issues or complaints have not been satisfactorily resolved at the College, the Accreditation Council for Pharmacy Education (ACPE) may be contacted via email: csinfo@acpe-accredit.org. The Accreditation Council for Pharmacy Education has offices at 20 North Clark Street, Suite 2500, Chicago, Ill. 60602-5109. They may be contacted by phone at 312-664-3575, by fax at 312-664-4652, or via their website: www.acpe-accredit.org.
### Educational Outcomes for the Medical University of South Carolina College of Pharmacy – Doctor of Pharmacy Graduate

**Domain 1 – Foundational Knowledge**

1. Learner (Learner) - Develop, integrate, and apply knowledge from the foundational sciences (i.e., pharmaceutical, social/behavioral/administrative,* and clinical sciences) to evaluate the scientific literature, explain drug action, solve therapeutic problems, and advance population health and patient-centered care.

**Domain 2 – Essentials for Practice and Care**

2.1. Patient-centered care (Caregiver) - Provide patient-centered care as the medication expert (collect and interpret evidence, prioritize, formulate assessments and recommendations, implement, monitor and adjust plans, and document activities).

2.2. Medication use systems management (Manager) - Manage patient healthcare needs using human, financial, technological, and physical resources to optimize the safety and efficacy of medication use systems.

2.3. Health and wellness (Promoter) - Design prevention, intervention, and educational strategies for individuals and communities to improve health and wellness.

2.4. Population-based care (Provider) - Describe how population-based care influences patient-centered care and influences the development of practice guidelines and evidence-based best practices.

**Domain 3 – Approach to Practice and Care**

3.1. Problem Solving (Problem Solver) – Identify problems; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution.

3.2. Educator (Educator) – Educate all audiences by determining the most effective and enduring ways to impart information and assess understanding.

3.3. Patient Advocacy (Advocate) - Assure that patients’ best interests are represented.

3.4. Interprofessional collaboration (Collaborator) – Actively participate and engage as a healthcare team member by demonstrating mutual respect, understanding, and values to meet patient care needs.

3.5. Cultural sensitivity (Includer) - Recognize social determinants of health to diminish disparities and inequities in access to quality care.

3.6. Communication (Communicator) – Effectively communicate verbally and nonverbally when interacting with an individual, group, or organization.

**Domain 4 – Personal and Professional Development**

4.1. Self-awareness (Self-aware) – Examine and reflect on personal knowledge, skills, abilities, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth.

4.2. Leadership (Leader) - Demonstrate responsibility for creating and achieving shared goals, regardless of position.

4.3. Innovation and Entrepreneurship (Innovator) - Engage in innovative activities by using creative thinking to envision better ways of accomplishing professional goals.

4.4. Professionalism (Professional) - Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society.

*Terms that are bolded and italicized are defined in the glossary of the Center for the Advancement of Pharmacy Education (CAPE) Educational Outcomes 2013 at [http://www.aacp.org/resources/education/cape/Open%20Access%20Documents/CAPEoutcomes2013.pdf](http://www.aacp.org/resources/education/cape/Open%20Access%20Documents/CAPEoutcomes2013.pdf)

### Medical University of South Carolina College of Pharmacy Curriculum

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<tr>
<th>Fall P1 (semester 1)</th>
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<th>Spring P1 (semester 2)</th>
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<td>Foundations of Pathophysiology &amp; Pharmacology II</td>
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<td>Foundations of Pharmaceutical Chemistry &amp; Pharmacogenomics II</td>
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<td>Pharmaceutical Biotechnology</td>
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<td>Self-Care &amp; Complementary Medicines</td>
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<td>Transforming Health Care</td>
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<td>Pathophysiology/Pharmacologic Basis of Therapeutics II</td>
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<td>Pharmacotherapy II</td>
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<td>Outcomes Design and Assessment</td>
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<td>Clinical Applications III</td>
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For students entering the program in Fall 2016
Medical University of South Carolina College of Pharmacy Core Course Descriptions

First Professional Year

Fall

SCCP 602/COP 601: Foundations of Pathophysiology and Pharmacology I
This is the first course in a 2-semester sequence providing important physiologic, pathophysiologic and pharmacologic principles and concepts that will be utilized in subsequent courses in which appropriate pharmacotherapeutic approaches towards treating diseases processes will be discussed. Course Credit Hours: 2. Prerequisite: first professional year standing.

SCCP 650/COP 650: Introduction to Pharmacy Practice
Introduction to the professional issues relevant to the practice of pharmacy. Course Credit Hours: 2. Prerequisite: first professional year standing.

SCCP 607/COP 607: Dosage Forms and Drug Delivery Systems
A study of the physicochemical principles of the formulation, preparation, properties, and performance of the pharmaceutical dosage forms including: aqueous and non-aqueous liquids, suspensions, emulsions, solid unit oral dosage forms, sustained and controlled delivery preparations as well as rectal, parenteral, and biological delivery systems. Clinical application of the various dosage forms in patient care will be discussed. Course Credit Hours: 4. Prerequisite: first professional year standing.

SCCP 621/COP 621: Foundations of Pharmaceutical Chemistry and Pharmacogenomics I
This is the first of a 2-course sequence which begins with an introduction to the scientific principles underlying pharmaceutical chemistry and pharmacogenomics. The relationships of molecular structure to drug absorption, distribution, metabolism and excretion are explained. The chemical mechanisms of drug therapeutic actions and adverse events are explored. An emphasis is placed on the pharmacogenomic basis of individualized/optimized drug therapy. Course Credit Hours: 3. Prerequisite: first professional year standing.

SCCP 615/COP 615: Pharmaceutical Biochemistry
The course covers the molecular and biochemical basis of human metabolism, the role it plays in disease and the biochemical basis of drug action. The properties, function and interaction of biological molecules and major biochemical pathways are covered. Emphasis is placed on the molecular basis of human metabolism, causes of human diseases, and how drugs produce biological effects. Course Credit Hours: 3. Prerequisite: first professional year standing.

SCCP 680/COP 620: Introduction to Drug Information
This course is designed to provide students with an overview of drug information practice and to expose them to basic drug information skills and resources that will facilitate learning in other courses and help them provide medication information to individuals. Course Credit Hours: 1. Prerequisite: first professional year standing.

SCCP 656/COP 625: Pharmacy Calculations
This course develops the mathematic skills and knowledge required in various pharmacy practice settings. Students will be introduced to the Apothecary and Apoirdupois systems of measurement and will perform interconversions between these measurement systems and the metric system. Problem solving skills will be developed as students become proficient in basic math skills used to solve pharmacy calculations based word problems which are commonly seen in a variety of practice settings, including community, compounding, hospital, and nuclear pharmacy. Course Credit Hours: 1. Prerequisite: first professional year standing.

SCCP 657/COP 627: Medical Terminology
A thorough knowledge of medical terminology is an essential building block in pharmacy education. This course will aid the student in learning the language and terminology used in other pharmacy courses and all areas of pharmacy practice. Course Credit Hours: 1. Prerequisite: first professional year standing.

SCCP 671/COP 630: Pharmacy Skills Lab I: Compounding and Applied Pharmaceutics
The art, science, and technology of pharmacy compounding. Course Credit Hours: 1. Prerequisite: first professional year standing.

Spring

SCCP 615/COP 615: Pharmaceutical Biochemistry
This is the second of the 2-course sequence which begins with an introduction to the scientific principles underlying pharmaceutical chemistry and pharmacogenomics. The relationships of molecular structure to drug absorption, distribution, metabolism and excretion are explained. The chemical mechanisms of drug therapeutic actions and adverse events are explored. An emphasis is placed on the pharmacogenomic basis of individualized/optimized drug therapy. Course Credit Hours: 3. Prerequisite: first professional year standing.

SCCP 680/COP 620: Introduction to Drug Information
This course is designed to provide students with an overview of drug information practice and to expose them to basic drug information skills and resources that will facilitate learning in other courses and help them provide medication information to individuals. Course Credit Hours: 1. Prerequisite: first professional year standing.

SCCP 656/COP 625: Pharmacy Calculations
This course develops the mathematic skills and knowledge required in various pharmacy practice settings. Students will be introduced to the Apothecary and Apoirdupois systems of measurement and will perform interconversions between these measurement systems and the metric system. Problem solving skills will be developed as students become proficient in basic math skills used to solve pharmacy calculations based word problems which are commonly seen in a variety of practice settings, including community, compounding, hospital, and nuclear pharmacy. Course Credit Hours: 1. Prerequisite: first professional year standing.

SCCP 657/COP 627: Medical Terminology
A thorough knowledge of medical terminology is an essential building block in pharmacy education. This course will aid the student in learning the language and terminology used in other pharmacy courses and all areas of pharmacy practice. Course Credit Hours: 1. Prerequisite: first professional year standing.

SCCP 671/COP 630: Pharmacy Skills Lab I: Compounding and Applied Pharmaceutics
The art, science, and technology of pharmacy compounding. Course Credit Hours: 1. Prerequisite: first professional year standing.
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<tr>
<th>Table of Contents</th>
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<tbody>
<tr>
<td>Spring</td>
</tr>
<tr>
<td><strong>COP 603: Foundations of Pathophysiology and Pharmacology II</strong>&lt;br&gt;This is the second course in a 2-semester sequence providing important physiologic, pathophysiologic and pharmacologic principles and concepts that will be utilized in subsequent courses in which appropriate pharmacotherapeutic approaches towards treating diseases processes will be discussed. Course Credit Hours: 4. Prerequisites: first professional year standing.</td>
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<tr>
<td><strong>COP 611: Foundations of Pharmaceutical Chemistry and Pharmacogenomics II</strong>&lt;br&gt;This is the second of the 2-course sequence addressing the pharmaceutical chemistry and pharmacogenomics of drug therapy. Emphasis is now shifted to the molecular basis of pharmacotherapy as organized by drug class. The chemical mechanisms of drug actions are addressed in the context of current advances in personized medicine, e.g., gene-dose effects, phenocopying, and allelic variants influencing the rational selection of first-line agents for the individual patient. Course Credit Hours: 3. Prerequisites: first professional year standing.</td>
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<tr>
<td><strong>COP 616: Pharmaceutical Biotechnology</strong>&lt;br&gt;The course focuses on nucleic acids (DNA/RNA) as the core theme. This includes the eukaryotic cell cycle, meiosis, replication, transcription, translation, and repair. Recombinant DNA technology is covered as applied to the study of human health and to the production of biological agents intended for use in disease therapy. Antibodies are covered from the perspective of their use in diagnostic tests, as well as the utilization of antibodies and their conjugates as therapeutics. The concepts and applications of gene therapy and RNA silencing are also taught. Course Credit Hours: 2. Prerequisites: first professional year standing.</td>
</tr>
<tr>
<td><strong>COP 618: Self-Care and Complementary Medicines</strong>&lt;br&gt;Self-Care &amp; Complementary Medicines is a course that will review the indications, contraindications, and cautions involved with the recommendation and dispensing of nonprescription (OTC) drug items and complementary medicines. The course will provide the pharmacy student with a wide range of current information regarding nonprescription therapies, including OTC products, herbal, and alternative medicine therapies, which will allow the student to make appropriate decisions regarding product selection and use by patients for self-care. Course Credit Hours: 4. Prerequisites: first professional year standing.</td>
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<td><strong>COP 640: Clinical Applications I</strong>&lt;br&gt;Case-based discussions that integrate and demonstrate applicability of other course material. Course Credit Hours: 1. Prerequisite: first professional year standing.</td>
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<td><strong>COP 652: Pharmacy Skill Lab II: Introduction to Community Pharmacy</strong>&lt;br&gt;Interactive laboratory session designed to provide students with a thorough understanding of community pharmacy practice skills, to include the knowledge of prescription and drug order processing necessary to function in community pharmacy practice at a basic level. Course Credit Hours: 1. Prerequisite: first professional year standing.</td>
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<tr>
<td><strong>IP 710: Transforming Healthcare</strong>&lt;br&gt;The course goal is to lay the foundations for beginning (first year) professions students to understand the complexities of the health care system and the role of interprofessional collaboration to improve the system. Through an interprofessional context, students will explore the art and science of teamwork and communication skills, cultural competency, ethical issues, evidence-based practice, healthcare disparities and social determinants of health. Course Credit Hours: 2. Prerequisite: first professional year standing.</td>
</tr>
<tr>
<td>Summer</td>
</tr>
<tr>
<td><strong>COP 650: Introductory Pharmacy Practice Experience - Community</strong>&lt;br&gt;Introduction to the practice of the pharmacy in the community pharmacy setting. Forty hours of directed experience per week for four weeks. Course Credit Hours: 4. Practice experience of 4 weeks, 40 hours per week. Pass/Fail. Prerequisite: first professional year standing.</td>
</tr>
<tr>
<td>Second Professional Year</td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td><strong>COP 702: Pathophysiology &amp; Pharmacology I</strong>&lt;br&gt;Building on Foundations of Pathophysiology &amp; Pharmacology I and II, this course is the first in the four-semester course sequence aimed at integrating the discussion of specific disease states and the mechanisms of action of the pharmacologic agents used to treat those disease states. This knowledge will be applied in a parallel sequence of courses in Pharmacotherapy primarily using an organ-system based approach emphasizing pharmaceutical care and disease management. Course Credit Hours: 3. Prerequisite: second professional year standing.</td>
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<tr>
<td><strong>COP 712: Pharmacotherapy I</strong>&lt;br&gt;Prerequisites: second professional year standing. This course is the first in a 4-semester sequence of courses providing a systems-based approach to pharmaceutical care and disease management. Students will learn about disease prevention and health promotion, as well as the drug and non-drug therapy of acute and chronic diseases seen in both hospitalized and ambulatory patients. Emphasis is placed on preventing, identifying, and solving drug-related problems. Course Credit Hours: 4. Prerequisite: second professional year standing.</td>
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<tr>
<td><strong>COP 717: Clinical Microbiology</strong>&lt;br&gt;This course will build upon the student’s existing microbiology knowledge and provide a deeper understanding of etiology, epidemiology, pathogenesis, and symptoms of common pathogens. This course will prepare the student for infectious diseases pharmacotherapy. Course Credit Hours: 2. Prerequisite: second professional year standing.</td>
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<tr>
<td><strong>COP 722: Biopharmaceutics and Pharmacokinetics</strong>&lt;br&gt;Study of the pharmacokinetics of drug absorption, distribution, and elimination (metabolism and excretion). Introductory application of pharmacokinetics to drug interactions and dosage regimen design and adjustment, selected disease states, and special populations. Course Credit Hours: 3. Prerequisites: second professional year standing.</td>
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<tr>
<td><strong>COP 731: Pharmacy Skills Lab III: Introduction to Health-Systems Pharmacy</strong>&lt;br&gt;In the laboratory setting, students are introduced to various disciplines of pharmacy in the institutional setting. This laboratory environment focuses on skill sets and base knowledge required of clinical pharmacists in these settings and seeks to lay a foundation of professionalism and critical thinking skills. Course Credit Hours: 1. Prerequisite: second professional year standing.</td>
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<td><strong>COP 742: Clinical Applications II</strong>&lt;br&gt;Case-based discussions that integrate and demonstrate applicability of other course material in patient care. Course Credit Hours: 1. Prerequisite: second professional year standing.</td>
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<td>Spring</td>
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<tr>
<td><strong>COP 704: Pathophysiology &amp; Pharmacology II</strong>&lt;br&gt;Building on Foundations in Pathophysiology and Pharmacology I, this will be the second in a 4-semester sequence of courses aimed at integrating the discussion of specific disease states and the mechanism of action of the pharmacologic agents used to treat those disease states. This knowledge will be integrated, utilized and applied in a parallel sequence of courses in Pharmacotherapy using an organ-system based approach emphasizing pharmaceutical care and disease management. Course Credit Hours: 3. Prerequisites: second professional year standing.</td>
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</table>
**COP 714: Pharmacotherapy II**  
This course is the second in a 4-semester sequence of courses providing a systems-based approach to pharmaceutical care and disease management. Students will learn about disease prevention and health promotion, as well as the drug and non-drug therapy of acute and chronic diseases seen in both hospitalized and ambulatory patients. Emphasis is placed on preventing, identifying, and solving drug-related problems. Course Credit Hours: 4. Prerequisite: second professional year standing.

**COP 720: Clinical Pharmacokinetics**  
Clinical application of basic pharmacokinetic principles to safe and effective patient management with emphasis on design of dosage regimens, therapeutic monitoring, and adjustment of therapy. Application illustrated and practiced through discussions and case examples. Course Credit Hours: 3. Prerequisite: second professional year standing.

**COP 725: Outcomes Design and Assessment**  
This course teaches common statistical methods and study designs used in pharmacopepidemiology and outcomes research, as well as to issues related to the measurement, analysis, and interpretation of results of clinical trials and outcomes studies. Course Credit Hours: 3. Prerequisite: second professional year standing.

**COP 733: Pharmacy Skills Lab IV: Applied Health-Systems Pharmacy**  
In the laboratory setting, students apply basic skills and knowledge acquired in COP 731 through various mechanisms and activities requiring critical thinking and problem solving. The laboratory continues to hone student professionalism. Course Credit Hours: 1. Prerequisite: second professional year standing.

**COP 744: Clinical Applications III**  
Case-based discussions that integrate and demonstrate applicability of other course material in patient care. Course Credit Hours: 1. Prerequisite: second professional year standing.

**Third Professional Year**

**Fall**

**COP 804: Health Care Systems and Management**  
This course provides insight and understanding of the U.S. health care system and pharmacy's role within that system. Managerial skills and concepts are taught to allow pharmacists to maximize their contribution to this health care system and to the patients it serves. Course Credit Hours: 4. Prerequisite: third professional year standing.

**COP 806: Pathophysiology & Pharmacology III**  
Building on Pathophysiology and Pharmacology I and II, this will be the third in a 4-semester sequence of courses aimed at integrating the discussion of specific disease states and the mechanism of action of the pharmacologic agents used to treat those disease states. This knowledge will be integrated, utilized, and applied in a parallel sequence of courses in pharmacotherapy using an organ-system based approach emphasizing pharmaceutical care and disease management. Course Credit Hours: 3. Prerequisites: third professional year standing.

**COP 816: Pharmacotherapy III**  
This course is the third in a 4-semester sequence of courses providing a systems-based approach to pharmaceutical care and disease management. Students will learn about disease prevention and health promotion, as well as the drug and non-drug therapy of acute and chronic diseases seen in both hospitalized and ambulatory patients. Emphasis is placed on preventing, identifying, and solving drug-related problems. Course Credit Hours: 4. Prerequisites: third professional year standing.

**COP 821: Advanced Drug Information**  
This course is designed to provide students with advanced drug information practice and critical literature evaluation skills. This course provides students with the requisite skills to facilitate life-long learning. Course Credit Hours: 2. Prerequisites: third professional year standing.

**COP 846: Clinical Applications IV**  
Case-based discussions that integrate and demonstrate applicability of other course material in patient care. Students may also have discussions, presentations, and written assignments that incorporate new and previously learned material. Course Credit Hours: 1. Prerequisite: third professional year standing.

**COP 834: Pharmacy Skills Lab V: Applied Community Pharmacy**  
Provide students with an advanced knowledge of prescription and drug order processing, and assist them in the development of operation-related skills to facilitate life-long learning. Course Credit Hours: 1. Prerequisites: third professional year standing.

**Spring**

**COP 805: Pharmacy Law and Ethics**  
This course teaches federal and state laws and regulations governing the practice of pharmacy and introduction to the professional and ethical issues relevant to the practice of pharmacy. Course Credit Hours: 3. Prerequisite: third professional year standing.

**COP 808: Pathophysiology & Pharmacology IV**  
This is the fourth in a 4-semester sequence of courses aimed at integrating the discussion of specific disease states and the mechanism of action of the pharmacologic agents used to treat those disease states. This knowledge will be integrated, utilized, and applied in a parallel sequence of courses in Pharmacotherapy using an organ-system based approach emphasizing pharmaceutical care and disease management. Course Credit Hours: 2. Prerequisites: third professional year standing.

**COP 818: Pharmacotherapy IV**  
This course is the fourth in a 4-semester sequence of courses providing a systems-based approach to pharmaceutical care and disease management. Students will learn about disease prevention and health promotion, as well as the drug and non-drug therapy of acute and chronic diseases seen in both hospitalized and ambulatory patients. Emphasis is placed on preventing, identifying, and solving drug-related problems. Course Credit Hours: 5. Prerequisites: third professional year standing.

**COP 836: Clinical Assessment**  
Development of clinical assessment skills necessary in the provision of pharmaceutical care to patients with a variety of disease states in both inpatient and outpatient settings. Students will combine physical assessment skills, patient counseling skills, and pharmacotherapy knowledge and apply this information to patient care related activities in various clinical settings. Course Credit Hours: 3. Prerequisite: third professional year standing.

**COP 846: Clinical Applications V**  
A capstone course, where case studies of complex patients will bring together concepts learned throughout the previous semesters in the professional program. Students may also have discussions, presentations, and written assignments that incorporate new and previously learned material. Course Credit Hours: 1. Prerequisite: third professional year standing.
### Fourth Professional Year

#### COP 901 Acute/General Medicine Pharmacy Practice Experience I
This required advanced pharmacy practice experience (APPE) provides clinical pharmacy activity on a variety of adult and pediatric medicine inpatient services including cardiology, critical care, emergency medicine, geriatrics, gastrointestinal, infectious disease, nephrology, OB-GYN, oncology, psychiatry, pulmonary and transplant. The APPE provides an exposure to a variety of disease states that allows the student to gain experience monitoring drug therapy and participating in the therapeutic decision making process. Additional competencies to be achieved during this APPE include: (1) how to develop a problem list, (2) how to present a patient, (3) how to develop and implement a monitoring plan, (4) how to take a medication history, (5) how to respond to a drug information request, and (6) review the policies and procedures at the institution. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.

#### COP 902 Acute/General Medicine Pharmacy Practice Experience II
This required advanced pharmacy practice experience (APPE) provides clinical pharmacy activity on a variety of adult and pediatric medicine inpatient services including cardiology, critical care, emergency medicine, geriatrics, gastrointestinal, infectious disease, nephrology, OB-GYN, oncology, psychiatry, pulmonary and transplant. The APPE provides an exposure to a variety of disease states that allows the student to gain experience monitoring drug therapy and participating in the therapeutic decision making process. Additional competencies to be achieved during this APPE include: (1) how to develop a problem list, (2) how to present a patient, (3) how to develop and implement a monitoring plan, (4) how to take a medication history, (5) how to respond to a drug information request, and (6) review the policies and procedures at the institution. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.

#### COP 903 Acute/General Medicine Pharmacy Practice Experience III
This advanced pharmacy practice experience (APPE) provides additional clinical pharmacy activity on a variety of adult and pediatric medicine inpatient services including cardiology, critical care, emergency medicine, geriatrics, gastrointestinal, infectious disease, nephrology, OB-GYN, oncology, psychiatry, pulmonary and transplant. The APPE provides an exposure to a variety of disease states that allows the student to gain experience monitoring drug therapy and participating in the therapeutic decision making process. Additional competencies to be achieved during this APPE include: (1) how to develop a problem list, (2) how to present a patient, (3) how to develop and implement a monitoring plan, (4) how to take a medication history, (5) how to respond to a drug information request, and (6) review the policies and procedures at the institution. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.

#### COP 904 Acute/General Medicine Pharmacy Practice Experience IV
This advanced pharmacy practice experience (APPE) provides additional clinical pharmacy activity on a variety of adult and pediatric medicine inpatient services including cardiology, critical care, emergency medicine, geriatrics, gastrointestinal, infectious disease, nephrology, OB-GYN, oncology, psychiatry, pulmonary and transplant. The APPE provides an exposure to a variety of disease states that allows the student to gain experience monitoring drug therapy and participating in the therapeutic decision making process. Additional competencies to be achieved during this APPE include: (1) how to develop a problem list, (2) how to present a patient, (3) how to develop and implement a monitoring plan, (4) how to take a medication history, (5) how to respond to a drug information request, and (6) review the policies and procedures at the institution. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.

#### COP 905 Acute/General Medicine Pharmacy Practice Experience V
This advanced pharmacy practice experience (APPE) provides additional clinical pharmacy activity on a variety of adult and pediatric medicine inpatient services including cardiology, critical care, emergency medicine, geriatrics, gastrointestinal, infectious disease, nephrology, OB-GYN, oncology, psychiatry, pulmonary and transplant. The APPE provides an exposure to a variety of disease states that allows the student to gain experience monitoring drug therapy and participating in the therapeutic decision making process. Additional competencies to be achieved during this APPE include: (1) how to develop a problem list, (2) how to present a patient, (3) how to develop and implement a monitoring plan, (4) how to take a medication history, (5) how to respond to a drug information request, and (6) review the policies and procedures at the institution. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.

#### COP 906 Acute/General Medicine Pharmacy Practice Experience VI
This advanced pharmacy practice experience (APPE) provides additional clinical pharmacy activity on a variety of adult and pediatric medicine inpatient services including cardiology, critical care, emergency medicine, geriatrics, gastrointestinal, infectious disease, nephrology, OB-GYN, oncology, psychiatry, pulmonary and transplant. The APPE provides an exposure to a variety of disease states that allows the student to gain experience monitoring drug therapy and participating in the therapeutic decision making process. Additional competencies to be achieved during this APPE include: (1) how to develop a problem list, (2) how to present a patient, (3) how to develop and implement a monitoring plan, (4) how to take a medication history, (5) how to respond to a drug information request, and (6) review the policies and procedures at the institution. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.

#### COP 907 Acute/General Medicine Pharmacy Practice Experience VII
This advanced pharmacy practice experience (APPE) provides additional clinical pharmacy activity on a variety of adult and pediatric medicine inpatient services including cardiology, critical care, emergency medicine, geriatrics, gastrointestinal, infectious disease, nephrology, OB-GYN, oncology, psychiatry, pulmonary and transplant. The APPE provides an exposure to a variety of disease states that allows the student to gain experience monitoring drug therapy and participating in the therapeutic decision making process. Additional competencies to be achieved during this APPE include: (1) how to develop a problem list, (2) how to present a patient, (3) how to develop and implement a monitoring plan, (4) how to take a medication history, (5) how to respond to a drug information request, and (6) review the policies and procedures at the institution. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.

#### COP 911: Ambulatory Care Pharmacy Practice Experience I
This required advanced pharmacy practice experience (APPE) involves the student in the daily provision of clinical pharmacy services in the ambulatory care setting including anticoagulation, geriatrics, HIV, Indian Health Services, oncology, pain management, and primary care. Responsibilities include providing drug therapy for disease states commonly encountered in the outpatient setting, providing drug regimen reviews, physical assessment and interviewing patients to elicit drug histories, health status, and adherence to therapy. A significant aspect of this rotation pertains to the long-term management of chronically ill patients. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.

#### COP 912: Ambulatory Care Pharmacy Practice Experience II
This advanced pharmacy practice experience (APPE) involves the student in the daily provision of clinical pharmacy services in the ambulatory care setting including anticoagulation, geriatrics, HIV, Indian Health Services, oncology, pain management, and primary care. Responsibilities include providing drug therapy for disease states commonly encountered in the outpatient setting, providing drug regimen reviews, physical assessment and interviewing patients to elicit drug histories, health status, and adherence to therapy. A significant aspect of this rotation pertains to the long-term management of chronically ill patients. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 913: Ambulatory Care Pharmacy Practice Experience III</td>
<td>This advanced pharmacy practice experience (APPE) involves the student in the daily provision of clinical pharmacy services in the ambulatory care setting including anticoagulation, geriatrics, HIV, Indian Health Services, oncology, pain management, and primary care. Responsibilities include providing drug therapy for disease states commonly encountered in the outpatient setting, providing drug regimen reviews, physical assessment and interviewing patients to elicit drug histories, health status, and adherence to therapy. A significant aspect of this rotation pertains to the long-term management of chronically ill patients. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 914: Ambulatory Care Pharmacy Practice Experience IV</td>
<td>This advanced pharmacy practice experience (APPE) involves the student in the daily provision of clinical pharmacy services in the ambulatory care setting including anticoagulation, geriatrics, HIV, Indian Health Services, oncology, pain management, and primary care. Responsibilities include providing drug therapy for disease states commonly encountered in the outpatient setting, providing drug regimen reviews, physical assessment and interviewing patients to elicit drug histories, health status, and adherence to therapy. A significant aspect of this rotation pertains to the long-term management of chronically ill patients. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 915: Ambulatory Care Pharmacy Practice Experience V</td>
<td>This advanced pharmacy practice experience (APPE) involves the student in the daily provision of clinical pharmacy services in the ambulatory care setting including anticoagulation, geriatrics, HIV, Indian Health Services, oncology, pain management, and primary care. Responsibilities include providing drug therapy for disease states commonly encountered in the outpatient setting, providing drug regimen reviews, physical assessment and interviewing patients to elicit drug histories, health status, and adherence to therapy. A significant aspect of this rotation pertains to the long-term management of chronically ill patients. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 916: Ambulatory Care Pharmacy Practice Experience VI</td>
<td>This advanced pharmacy practice experience (APPE) involves the student in the daily provision of clinical pharmacy services in the ambulatory care setting including anticoagulation, geriatrics, HIV, Indian Health Services, oncology, pain management, and primary care. Responsibilities include providing drug therapy for disease states commonly encountered in the outpatient setting, providing drug regimen reviews, physical assessment and interviewing patients to elicit drug histories, health status, and adherence to therapy. A significant aspect of this rotation pertains to the long-term management of chronically ill patients. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 920 Community Pharmacy Practice I</td>
<td>This advanced pharmacy practice experience (APPE) builds upon the introductory pharmacy practice experience in community pharmacy. This APPE provides pharmacy experience in a variety of community settings including chain, clinic, compounding and independent. The emphasis is placed on patient counseling, immunizations, medication therapy management, and/or compounding. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 921 Community Pharmacy Practice II</td>
<td>This advanced pharmacy practice experience (APPE) builds upon the introductory pharmacy practice experience in community pharmacy. This APPE provides additional pharmacy experience in a variety of community settings including chain, clinic, compounding and independent. The emphasis is placed on patient counseling, immunizations, medication therapy management, and/or compounding. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 922 Community Pharmacy Practice III</td>
<td>This advanced pharmacy practice experience (APPE) builds upon the introductory pharmacy practice experience in community pharmacy. This APPE provides additional pharmacy experience in a variety of community settings including chain, clinic, compounding and independent. The emphasis is placed on patient counseling, immunizations, medication therapy management, and/or compounding. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 923 Community Pharmacy Practice IV</td>
<td>This advanced pharmacy practice experience (APPE) builds upon the introductory pharmacy practice experience in community pharmacy. This APPE provides additional pharmacy experience in a variety of community settings including chain, clinic, compounding and independent. The emphasis is placed on patient counseling, immunizations, medication therapy management, and/or compounding. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 930 Hospital/Health System Pharmacy Practice Experience I</td>
<td>This required advanced pharmacy practice experience (APPE) builds upon the introductory pharmacy practice experience in a hospital/health system setting. This APPE provides pharmacy experience in a variety of hospital/health system practice areas including regulatory compliance, human resources, patient care, informatics, and drug distribution process. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 931 Hospital/Health System Pharmacy Practice Experience II</td>
<td>This advanced pharmacy practice experience (APPE) builds upon the introductory pharmacy practice experience in a hospital/health system setting. This APPE provides pharmacy experience in a variety of hospital/health system practice areas including regulatory compliance, human resources, patient care, informatics, and drug distribution process. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 932 Hospital/Health System Pharmacy Practice Experience III</td>
<td>This advanced pharmacy practice experience (APPE) builds upon the introductory pharmacy practice experience in a hospital/health system setting. This APPE provides pharmacy experience in a variety of hospital/health system practice areas including regulatory compliance, human resources, patient care, informatics, and drug distribution process. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 933 Hospital/Health System Pharmacy Practice Experience IV</td>
<td>This advanced pharmacy practice experience (APPE) builds upon the introductory pharmacy practice experience in a hospital/health system setting. This APPE provides pharmacy experience in a variety of hospital/health system practice areas including regulatory compliance, human resources, patient care, informatics, and drug distribution process. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 934 Hospital/Health System Pharmacy Practice Experience V</td>
<td>This advanced pharmacy practice experience (APPE) builds upon the introductory pharmacy practice experience in a hospital/health system setting. This APPE provides pharmacy experience in a variety of hospital/health system practice areas including regulatory compliance, human resources, patient care, informatics, and drug distribution process. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 935 Hospital/Health System Pharmacy Practice Experience VI</td>
<td>This advanced pharmacy practice experience (APPE) builds upon the introductory pharmacy practice experience in a hospital/health system setting. This APPE provides pharmacy experience in a variety of hospital/health system practice areas including regulatory compliance, human resources, patient care, informatics, and drug distribution process. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 940 Elective Pharmacy Practice Experience I</td>
<td>Elective pharmacy practice experiences provide students with the opportunity to explore a variety of pharmacy practice settings in addition to the four core curricular categories (acute/general medicine, ambulatory care, community, and hospital/health system). These elective experiences are typically in non-traditional pharmacy settings and include, but are not limited to, academia, administration, drug information, industry, informatics, international, investigational drug services, long term care, mail order, managed care, nuclear, poison center, research and veterinary medicine. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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<tr>
<td>COP 941 Elective Pharmacy Practice Experience II</td>
<td>Elective pharmacy practice experiences provide students with the opportunity to explore a variety of pharmacy practice settings in addition to the four core curricular categories (acute/general medicine, ambulatory care, community, and hospital/health system). These elective experiences are typically in non-traditional pharmacy settings and include, but are not limited to, academia, administration, drug information, industry, informatics, international, investigational drug services, long term care, mail order, managed care, nuclear, poison center, research and veterinary medicine. Course Credit Hours: 4; one month of supervised advanced pharmacy practice for at least 40 hours per week. Prerequisite: fourth professional year standing.</td>
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</tbody>
</table>
## COP 501: History of Pharmacy
This course reviews the history of pharmacy from the pre-historic roots to the present. Special emphasis on South Carolina’s pharmacy history, including evolution of education. Students will have access to historical artifacts and equipment. Three field trips to area museums and collections are included. Course Credit Hours: 2. Prerequisite: second or third professional year standing.

## COP 502: Clinical Immunology/Transplant
The course will build upon principles of immunology to include monitoring the immune system, hypersensitivity reactions, and the principles of solid organ transplantation and role of the pharmacist in transplantation. Course Credit Hours: 2. Prerequisite: second or third professional year standing.

## COP 503: Special Project, Dept. of Pharmacy and Outcome Sciences
An individualized program of study or research arranged by consultation between student and faculty member. Credit is variable and the course may be repeated for credit. Course Credit Hours: 1-4. Independent study format. Prerequisite: second or third professional year standing.

## COP 504: Health Systems Pharmacy: Policy and Practice
An overview of the provision of pharmacy services in various health systems is provided. Approaches to organizational structure, pharmacy services, pharmacist practice roles are reviewed. Selected concepts of personnel management associated with pharmacists and technical personnel. Course Credit Hours: 2. Prerequisite: second or third professional year standing.

## COP 505: Personal Finance
This course is designed to provide the health care practitioner with the knowledge and skills to manage their personal finances in an effective manner. After successfully completing this course, the student will be able to understand the process for making personal financial decisions; establish personal financial goals; evaluate the factors that influence personal financial planning; and apply strategies for attaining personal financial goals. Course Credit Hours: 3. Prerequisite: second or third professional year standing.

## COP 506: Pediatric Pharmacotherapy
This challenging course is designed to provide the student with increased exposure to disease states, medication issues, and clinical decision-making skills specific to the pediatric population. Pediatrics is an integral component to most pharmacy careers, and gaining a greater understanding of the patient population’s challenges and nuances is necessary to become a confident and well-rounded practitioner. This elective also seeds to provide exposure to the pediatric pharmacy community, including experts in the subspecialty areas and organizations. Course Credit Hours: 2. Prerequisite: second professional year standing.

## COP 507: Advanced Topics in Pharmacy Compounding I
This course will build upon the knowledge acquired in the first professional year courses Dosage Forms/Drug Delivery Systems and Compounding/Applied Pharmaceutics lab. The course will provide emphasis on practical application in the evaluation of unique dosage forms, pharmacotherapy, and special pharmaceutical needs of various patient populations. This course is self-paced and delivered in an online format utilizing prerecorded lectures. Course Credit Hours: 1. Pass/Fail. Prerequisite: second professional year standing.

## COP 508: Advanced Topics in Pharmacy Compounding II
This course is an elective course that provides additional insight and understanding into a variety of pharmacy compounding topics, which include nutrient depletion, drug-induced nutrient depletion, metabolic demands of athletes, men’s health, and family medicine. This course is self-paced and delivered in an online format utilizing prerecorded lectures. Course Credit Hours: 1. Self-paced, online format. Pass/Fail. Prerequisite: second professional year standing.

## COP 510: Acute Care Therapeutics
A disease oriented approach and organ-integrated approach to the care of patients with acute illnesses managed in the in-patient hospital setting. Students will learn common disease processes that affect the acute/ill hospitalized patient and the appropriate pharmacotherapy to treat these patients. This course focuses on developing critical thinking and problem solving skills, and integrating material from this course and previous courses in a case-based format. Course Credit Hours: 3. Prerequisite: third professional year standing.

## COP 511: Drug Interactions
This course is designed to prepare students to appropriately recognize, predict, assess, and manage drug interactions that are encountered in pharmacy practice. Course Credit Hours: 2. Prerequisite: third professional year standing.
COP 512: Senior Care Pharmacy Practice
This course will introduce students to various topics related to the care of older patients in any setting. Course content will complement the curriculum in regard to geriatric pathophysiology, pharmacology, socioeconomics, regulations, and pharmaco therapeutics. In addition, it will expand upon the various practices of senior care pharmacy. Practicing consultants and other topic experts will serve as lecturers. In addition to class discussions and lectures, students will participate in a consultant pharmacist shadowing experience and will conduct an interview with a senior patient. Course Credit Hours: 2. Prerequisite: third professional year standing.

COP 513: Infectious Diseases on the Adult Ward
This course will focus on developing a working knowledge of infectious diseases and principles of pharmacotherapy for diseases that are commonly encountered in hospitalized adult patients. In addition, students will explore and critically evaluate relevant literature to answer topical questions regarding patient cases. These cases will be presented to peers in groups of 2 to 4 students. Each group will present approximately 3 cases and participate in a pro/con debate. Additional readings and exercises will be assigned to enhance preparation for class. Course Credit Hours: 2. Prerequisites: third professional year standing; and a passing grade in Pharmacotherapy.

COP 514: Introduction to Clinical Pharmacy Practice
This course will build upon the principles of pathophysiology, medication administration, and patient interaction to include: developing advanced skills in patient assessment (SOAP notes), taking accurate medication histories, and providing effective patient counseling. Students will understand the role of the pharmacist in discussing patient issues such as, access to medications, adherence, assessing understanding to improve compliance, and sensitive patient issues. Course Credit Hours: 2. Prerequisite: second professional year standing.

2016-2017 Academic Calendar

<table>
<thead>
<tr>
<th>Fall 2016</th>
<th>Spring 2017</th>
<th>Summer 2017 (5/8-8/19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientation (8/17-8/19, 8/22)</td>
<td>Classes Begin (1/4)</td>
<td>IPPE Block 1 (5/8 – 6/2)</td>
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<tr>
<td>White Coat Ceremony (8/22)</td>
<td>MLK Day* (1/16)</td>
<td>IPPE Block 2 (6/5 – 6/30)</td>
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<tr>
<td>Classes Begin (8/23)</td>
<td>Last Day for Drop/Add (1/18)</td>
<td>IPPE Block 3 (7/3 – 7/28)</td>
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<td>Labor Day (9/5)</td>
<td>Interprofessional Day (1/20)</td>
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<tr>
<td>Last Day for Drop/Add (9/6)</td>
<td>Spring Break (3/11-19)</td>
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<td>Election Days (11/8)</td>
<td>Last Day of Class (4/27)</td>
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<tr>
<td>Research Days* (11/4)</td>
<td>Final Exams (4/29– 5/5)</td>
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<tr>
<td>Thanksgiving* (11/23-25)</td>
<td>Last Day of Class (12/13)</td>
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<tr>
<td>Final Exams (12/15-21)</td>
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</table>

*State Holiday – No Classes
*No Classes

Graduate Certificate Program in Clinical Pharmacy Practice

Description
This Graduate Certificate Program is designed to provide focused and in-depth training in Clinical Pharmacy Practice for international pharmacy graduates who are unable to receive such training in their home country. The program includes classroom instruction and part-time curricular practical training (CPT). Domestic candidates may apply, however other avenues for obtaining such training are readily available for domestic pharmacy graduates. This program is designed as a two-year experience to provide the student with the necessary education and training to enter into high level clinical practice or academic career in clinical pharmacy. The curricular courses for the program will be both classroom and experiential in nature, allowing the student to learn and apply didactic knowledge to patient care situations. After completion of the program the students may apply what they have learned in the program in their home country, or, if a US pharmacy license is obtained, go on for further training in a pharmacy residency program.

Certificate Requirements
This certificate program will comprise two calendar years of education and training at the MUSC and affiliated health-system partners. Although the program is designed as a two-year experience, a student may apply for an extension when they are making progress toward completion but require additional time. However, due to the F-1 visa requirements, an extension due to a delay in completion will only be considered if caused by compelling academic or medical reasons, such as changes of major or research topics, unexpected research problems or documented illnesses. For all students, a written timetable for certificate completion will be maintained.

Current and new courses needed to meet certificate requirements

New Courses
COP 200 Preparation for Internship I 2 units

Description: This course is designed to introduce principles and concepts of U.S pharmacy practice, to prepare the student to successfully complete the Foreign Pharmacy Graduate Equivalency Exam (FPGEE) and for Internship. Regular letter grades will be awarded for this course.

COP 201 Preparation for Internship II 2 units

Description: This course is designed to discuss more advanced principles and concepts of U.S. pharmacy practice and the U.S. healthcare system, to prepare the student to successfully complete the North American Pharmacy License Exam (NAPLEX) and Multi-State Pharmacy Jurisprudence Exam (MPJE). Regular letter grades will be awarded for this course.
### Existing courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP 710</td>
<td>Transforming Health Care</td>
<td>2</td>
</tr>
<tr>
<td>SCCP 650</td>
<td>Introduction to Pharmacy Practice</td>
<td>2</td>
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<tr>
<td>SCCP 772</td>
<td>Pharmacotherapy I</td>
<td>4</td>
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<tr>
<td>SCCP 773</td>
<td>Pharmacotherapy II</td>
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<td>SCCP 873</td>
<td>Pharmacotherapy III</td>
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<td>SCCP 874</td>
<td>Pharmacotherapy IV</td>
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<tr>
<td>SCCP 861</td>
<td>Clinical Applications II</td>
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<tr>
<td>SCCP 760</td>
<td>Clinical Applications III</td>
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<td>SCCP 761</td>
<td>Clinical Applications IV</td>
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<tr>
<td>SCCP 860</td>
<td>Clinical Applications V</td>
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<tr>
<td>SCCP 850</td>
<td>Health Care Systems &amp; Management</td>
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<tr>
<td>SCCP 880</td>
<td>Advanced Drug Information</td>
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<tr>
<td>SCCP 885</td>
<td>Pharmacy Law and Ethics</td>
<td>3</td>
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<tr>
<td>SCCP 999</td>
<td>Clinical Pharmacy Grand Rounds</td>
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### Practical Training Courses

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<th>Course</th>
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<th>Units</th>
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<tbody>
<tr>
<td>SCCP 900</td>
<td>Academia</td>
<td>4</td>
</tr>
<tr>
<td>SCCP 901-905, 919</td>
<td>Acute/General Medicine</td>
<td>4</td>
</tr>
<tr>
<td>SCCP 906-908</td>
<td>Acute/General Medicine/Pediatrics</td>
<td>4</td>
</tr>
<tr>
<td>SCCP 909, 932</td>
<td>Administrative</td>
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<tr>
<td>SCCP 910-913</td>
<td>Community</td>
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<tr>
<td>SCCP 9 14-917</td>
<td>Institutional</td>
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<tr>
<td>SCCP 920-923</td>
<td>Ambulatory Care</td>
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<tr>
<td>SCCP 925, 927</td>
<td>Informatics</td>
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<tr>
<td>SCCP 940-941</td>
<td>Long-term</td>
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<tr>
<td>SCCP 945-947</td>
<td>Nuclear</td>
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</tr>
<tr>
<td>SCCP 950-952</td>
<td>Research</td>
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### Program Structure

#### Fall Semester Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COP 200</td>
<td>Preparation for Internship I</td>
<td>2</td>
</tr>
<tr>
<td>SCCP 772, 873</td>
<td>Pharmacotherapy I and III</td>
<td>4</td>
</tr>
<tr>
<td>SCCP 900-952</td>
<td>Curricular practical training</td>
<td>3 units (3 weeks)</td>
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<tr>
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<td>Total</td>
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#### Spring Semester Year 1

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>COP 201</td>
<td>Preparation for Internship II</td>
<td>3</td>
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<tr>
<td>SCCP 770-872</td>
<td>Pharmacotherapy II and IV</td>
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<td>SCCP 885</td>
<td>Pharmacy Law and Ethics</td>
<td>2</td>
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#### Summer Semester Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SCCP 900-952</td>
<td>Curricular practical training</td>
<td>8 units (2 months)</td>
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#### Fall Semester Year 2

<table>
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<tbody>
<tr>
<td>SCCP 900-952</td>
<td>Curricular practical training</td>
<td>12 units (up to 3 months)</td>
</tr>
<tr>
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<td>Total</td>
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#### Spring Semester Year 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCCP 900-952</td>
<td>Curricular practical training</td>
<td>12 units (up to 3 months)</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>12</td>
</tr>
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</table>

Note: A total of 35 units in Curricular Practical Training (CPT) must be completed for the successful completion of the Graduate Certificate Program. A minimum of ten units in CPT will be completed during the first three semesters (Fall, Spring and Summer during Year 1).

- Hours of Instruction per week: 40
- Classroom hours per week: Variable depending on semester
- Practical training hours per week: Variable depending on semester
- Number of CPT per semester: Variable depending on semester and the professional meetings to be attended by the student.
- Total units to complete the program: 50.0
Student Learning Outcomes

This certificate program is designed primarily for foreign-trained pharmacists (including junior faculty members) who are embarking on a high-level clinical practice or academic career and to prepare such individuals to begin a residency program. The goals and objectives and specific courses for the program are designed for the future pharmacy clinician-educator. To achieve these broad outcomes, the student in the Certificate program will have achieved the following goals upon completion:

1. Successfully complete the FPGE, NAPLEX and MPJE exams.
2. Gain an in-depth understanding of U.S. pharmacy practice and education, and the U.S. health-care system, including the similarities and differences to their home country.
3. Evaluate patients in a variety of settings, assess for drug therapy problems and develop a comprehensive evidence-based pharmacy care plan including a detailed rationale for recommended therapy and monitoring.
4. Interact and communicate effectively with other health professionals, students, patients and caregivers.
5. Provide concise, applicable, comprehensive and timely responses to requests for drug information from patients and health professionals.
6. Improve teaching skills, including lecture, small group and experiential teaching settings to patients, caregivers, health professionals and students.
7. Demonstrate effective provision of pharmacy care in health-systems and outpatient clinics.
8. Develop, implement and complete a pharmacy practice-related project using effective project management skills.

Student Admittance

Prerequisites or Standardized Tests:

Students must have a pharmacy degree and be a practicing pharmacist in their home country. While the minimum degree required is a Bachelor of Science in Pharmacy, a Pharm.D. degree will be required for those going into residency programs. No standardized tests are required for admission to the certificate program.

Admission:

Students requesting admission to the program must meet the following requirements:

1. Be proficient in English with a score of at least 550 on the Test of English as a Foreign Language (TOEFL) paper based exam, 77 on the internet-based TOEFL, or 210 on the computer-based TOEFL. An international student admitted to the College must also successfully complete an English-based speech or public speaking course.
2. Be eligible to receive a Pharmacy Intern Certificate based on the South Carolina Board of Pharmacy and NABP requirements. The Pharmacy Intern Certificate is a requirement for students to complete Introductory and Advanced Pharmacy Practice Experiences portion of the Pharm.D. curriculum.
3. A degree in pharmacy and be eligible to or licensed to practice pharmacy in their home country.

Students who have attended post-secondary educational institutions, colleges or universities outside of the United States are required to submit a professional credential evaluation of all work completed. This is generally referred to as a course-by-course transcript evaluation. A course-by-course transcript evaluation should be sent directly to the Office of Enrollment Management from the evaluation service. A fee from the student is required for the evaluation of credentials. The payment and all contact regarding this process is done directly with the evaluation service of your choice. We will consider an evaluation from a member of the National Association of Credential Evaluation Services (NACES). The web address is www.naces.org.

Official documents (photocopies are acceptable) which certify that the student will have sufficient funding to attend the MUSC COP for one academic year are required. This evidence will be used to issue the student an immigration document (I-20 or DS-2019), which will be required to obtain the F-1 student visa at a U.S. embassy or consulate. If you are a permanent resident, you do not need to provide this information.

The applicant is responsible for obtaining a proper VISA, if accepted.

Applicants admitted to the doctor of pharmacy program must comply with all student policies and requirements as detailed in the MUSC COP Academic Bulletin and all admission procedure requirements including a background check and health / immunization policies.

Admission Selection Process:

All applicants will be considered for admission by the College’s Admissions Committee. International students are expected to be sponsored through an F-1 visa. The College’s Admissions Committee will evaluate all applications and each is rated based on admission criteria established by the committee.

Notice and Disclaimers

The online academic bulletin is the official document of record concerning the doctor of pharmacy academic program and regulations. The Bulletin is for information purposes only and does not constitute any contractual agreement between a student and the MUSC. The MUSC COP reserves the right to make changes in curricula, degree requirements, course offerings, or academic regulations at any time when, in the judgment of the Faculty, Deans, Presidents, or Boards of Trustees, such changes are in the best interest of the students and the University.

Pharm.D. students of the MUSC COP are bound by the policies and procedures of this bulletin. For policies and procedures not addressed in this bulletin, students are bound by the policies of the MUSC and are hereby made part of this document by reference.

Effective Date August 1, 2016