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College of Health Sciences

www.hs.odu.edu
Shelley C. Mishoe, Dean
Richardean Benjamin, Associate Dean
Deborah B. Bauman, Assistant Dean
2114 Health Sciences Building
Norfolk, VA 23529
757-683-4960

Doctorate:
• Health Services Research (Ph.D.)
• Physical Therapy (D.P.T.)
• Doctor of Nursing Practice (D.N.P.)

Master’s:
• Community Health (M.S.)
• Emphasis area: Environmental Health
• Dental Hygiene (M.S.)
• Nursing (M.S.N.)
• Public Health (M.P.H.)
• Tracts: Environmental Health &
  • Health Promotion

Accelerated Programs:
• B.S. in Health Sciences to Master of Public Health
• B.S. in Dental Hygiene to M.S. in Dental Hygiene
• B.S. in Environmental Health to Master of Public Health
• B.S. in Nursing to DNP – Nurse Executive
• B.S. in Nursing to DNP – FNP Program
• B.S. in Nursing to DNP – WHNP Program

Graduate Certificate Programs:
• Family Nurse Practitioner
• Modeling and Simulation in Health Sciences
• Molecular Diagnostics
• Nurse Administrator
• Nurse Educator
• Occupational Safety
• Women’s Health Nurse Practitioner

College Mission
The college mission is to improve individual and community health by advanced professional education, influential research, and responsive service. The vision of the College of Health Sciences is to be an internationally recognized leader in advancing health care by educating competent practitioners, generating practically significant scientific knowledge and innovative technologies, fostering scholarly collaborations, and promoting positive public health policies.

The college consists of the School of Community and Environmental Health, the Gene W. Hirschfeld School of Dental Hygiene, the School of Medical Laboratory and Radiation Sciences, the School of Nursing, and the School of Physical Therapy. These schools offer a variety of master’s and doctoral degrees, and non-degree certificate programs, accelerated and degree completion programs, and professional continuing education programs. In addition, many of these programs are offered off-campus and in a variety of distance learning formats. The degree programs are competitive, fully accredited, and nationally recognized for their quality graduates.

Program Application, Acceptance, and Continuance
A separate application must be submitted to be considered for acceptance into the health sciences majors. Application information, qualifications, deadlines, and advisors are listed in the specific program sections of this catalog and on the web site.

Acceptance to the University does not constitute or guarantee acceptance into a health sciences major. Students are notified by the program director of their acceptance and any other program specific requirements such as physicals, immunizations, technical standards, etc. Continuance in the health sciences majors requires strong academic achievement, including successful demonstration of knowledge and use of practical and critical thinking skills in laboratory and in clinical rotations. Criminal background checks may be required as specified in course syllabi. Any student deemed unacceptable for clinical rotation due to results from a criminal background check will not be allowed to complete the program of study.

The College of Health Sciences has developed graduate programs in the health-related professions that prepare individuals for practice, teaching, research, or administration in health-care delivery to meet the needs of the region, the state, and the nation. These programs include Master of Science degrees in community health and dental hygiene, the Master of Science in Nursing degree, the Master of Public Health degree, the Doctor of Physical Therapy degree, the Doctor of Nursing Practice degree, and the Ph.D. in health services research.

PhD in Health Services Research
757-683-6953
www.hs.odu.edu/commhealth/academics/PhD/
Dr. Deanne Shuman, Program Director

The primary mission of the Ph.D. in health services research is to develop leaders and problem solvers whose professional services will improve the health of the population not only in Eastern Virginia but also statewide, nationally, and internationally. Health services researchers examine health care quality and effectiveness, patient outcomes, access to care, health care costs and financing, primary and managed care, new technologies, and other critical topics. Health services researchers pursue careers in many settings, including academia, professional organizations, research centers, health policy groups, clinical settings, and in federal, state, and local agencies.

The goals of the program are to enable students to conduct and interpret health services research, to formulate and analyze public health policy, to lead programs and organizations that address the health care needs of populations and to work directly with community members to empower them to be a part of the policy formulation process. In accomplishing these goals students in the program will develop the critical skills necessary to assemble and integrate qualitative and quantitative evidence applicable to problem formulation and policy analysis. They will be able to design viable programs, manage resources, and measure the effectiveness of service delivery to populations. Students will be awarded the Ph.D. in health services research after the completion of all University and program requirements for graduate degrees.

Requirements for Admission
Students are admitted to the Ph.D. program during the fall term only. Applications for admission are reviewed by the Ph.D. in Health Services Research Program admissions committee which includes the graduate program director. To qualify for admission, an applicant must meet the general University admission requirements at the graduate level as well as specific program requirements, including:

1. A completed master’s degree from a program that is accredited by an appropriate specialized accrediting agency or from an institution of higher education that is regionally or nationally accredited; degrees such as M.D., J.D. and D.D.S. are also acceptable;
2. A minimum acceptable grade point average overall for the master’s degree;
3. Acceptable overall total score on the Graduate Record Exam (GRE);
4. For those whose native language is not English a TOEFL score of at least 550 (213 for online version);
5. Official transcripts from all institutions of higher education attended;
6. A current curriculum vitae or resume;
7. Three letters of reference from sources capable of commenting on the applicant’s readiness and commitment for doctoral studies. At least one, and preferably all letters will be from academic sources; however, letters may also be from professional colleagues;
8. A 1500 word essay discussing the applicant’s academic and professional goals. This essay should discuss how the Ph.D. in Health Services Research program will contribute towards meeting these goals.

Prerequisite courses are necessary for students who do not have graduate preparation in basic statistics, research design, health management and basic computer literacy. Prerequisite courses in health delivery systems and community health may be required for students without academic preparation or experience in these areas.

Complete the application form and submit all required materials to the Office of Admissions, Old Dominion University.

Degree Requirements
1. Satisfactory completion of at least 60 semester hours of graduate level coursework, including all required courses as listed below. (Students who receive two or more grades of C+ or one grade of F may not continue in the program).
2. Two semesters of full-time residency. These do not have to be consecutive.
3. A health services research internship.
4. Acceptable performance on written and oral candidacy examinations in the major field of study at the end of the program coursework. Students may re-take the candidacy exams only once.
5. Successful defense of a dissertation proposal.
6. Completion of a dissertation representing the candidate’s ability to conduct scholarly, original research. The quality of the research must be suitable for publication in an academic, peer-reviewed journal.
7. Successful oral defense of the dissertation.
8. Submission of the approved final copy of the dissertation.

Time frames for completion of degree requirement are as follows:
1. The entire process (from admission to dissertation defense) must be completed within eight years. Exceptions to this time limit require the approval of the graduate program director, the department chair, and the college dean.
2. Academic credit which is more than eight years old at the time of graduation must be re-validated by an examination before the work can be applied to a doctoral degree.
3. The dissertation must be completed within five years after the candidacy exams are passed.
4. Dissertations should be defended at least six weeks prior to the end of the semester in which the student expects to graduate.

Each student is required to have an advisory faculty member who will meet with the student after the first nine hours of coursework are complete. The faculty member, with the Graduate Program Director, approves the student’s planned coursework (plan of study) and conducts the written and oral competency exams at the end of the coursework. Students must maintain a 3.0 grade point average.

Curriculum
The coursework consists of 12 credits of health services core courses, 18 credits of research core courses, six credits of health policy core courses and a six credit cognate area. Additionally, students complete an internship (three credits), a dissertation seminar (three credits), and 12 dissertation credits. Up to nine hours of coursework may be at the 600 level. Up to 12 hours of graduate credit may be transferred from another university and applied towards the Ph.D. degree. Transfer of credit is approved at the discretion of the guidance committee and the graduate program director.

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Health Services Core</td>
<td>12</td>
</tr>
<tr>
<td>HLSC 801 Introduction to Health Services</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 809 MULTIDISC APPRCH HLTH SVC RSCH</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 814 Theory in the Health Sciences</td>
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</tr>
<tr>
<td>HLSC 864 Health Economics</td>
<td>6</td>
</tr>
<tr>
<td>Research Core</td>
<td>18</td>
</tr>
<tr>
<td>HLSC 810 Research Design and Application</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 811 Health-Care Research Methodologies I</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 812 Qualitative Research Methods</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 813 Instrumentation in the Health Sciences</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 846 Epidemiology-Advanced</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 804 Methods of Program Evaluation</td>
<td>6</td>
</tr>
<tr>
<td>Health Policy Core</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 815 Decision Analysis in Health Care</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 872 Policy and Politics of Health</td>
<td>6</td>
</tr>
<tr>
<td>Culminating Courses</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 868 Internship in Health Sciences</td>
<td>6</td>
</tr>
<tr>
<td>HLSC 881 Dissertation Seminar</td>
<td>6</td>
</tr>
<tr>
<td>Cognate Courses</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td>48</td>
</tr>
</tbody>
</table>

* Cognate areas offer choices for students to specialize in an area inside and outside of the health arena. Students choose their cognate with the approval of their guidance committee. Some examples are:
  - Epidemiology
  - Education of Health Professionals
  - Environmental Health
  - Engineering Management
  - Clinical Research
  - Industrial and Organizational Psychology
  - Health Psychology
  - Modeling and Simulation
  - Demography/GIS
  - Other areas to be determined by students and faculty

Candidacy Exams (Written and Oral)
The candidacy examination is normally taken during the spring or fall semester of registration in the last formal graduate credits. Through the candidacy examination, the student’s Advisory and Examination Committee in conjunction with the graduate program director shall ensure that the student has demonstrated a mastery of the subject matter in all fields of the program, has an adequate knowledge of relevant literature, and has the ability to identify, utilize, and apply research skills and techniques. To be eligible to take the examination, the student must meet the program requirements, must have completed or be in the semester of completing all coursework and the internship, must be recommended by his/her Advisory and Examination Committee, and must achieve at least a 3.0 GPA on all coursework taken within the program. Students need to apply to take the
candidacy exam to the graduate program director by the specified deadline each semester. The application form must be submitted by February 10 to take the exam in the spring semester and by September 10 to take the exam in the fall semester.

Questions for the candidacy examination are based on coursework taken in the core, cognate and culminating areas and require a sophisticated demonstration of skills. The examination is comprehensive in nature and consists of written and oral components. The written section of the exam is taken over a two-day period. Questions for the written exam consist of the problem, case study, or scenario variety and require approximately nine hours of writing time. The oral examination is taken only after all of the components of the written exam are passed, and must be taken in the same semester as the written exam. The oral examination is approximately one and one-half hours in length and permits an in-depth discussion of the written topics and other related materials. All parts of the examination are graded pass/fail. Students may retake the exam only once. Parts of the written exam that are not passed on the first attempt need to be re-taken when the exam is offered again. The oral exam can be re-taken in the same semester.

Dissertation (12 credits)

The candidate’s program of study culminates in a dissertation representing an original research project which makes a real and significant contribution to health services knowledge and practice. The dissertation provides a demonstration of the student’s ability to conduct independent scholarly research in health services research. The dissertation phase begins only after all other degree requirements (coursework, candidacy exams, dissertation seminar) have been completed. Towards this end, the candidate must form a dissertation committee, compose a letter of intent for the dissertation topic and have approved by their committee, and the college human subjects committee or the ODU IRB, write and successfully defend a dissertation proposal, conduct the research necessary to complete the dissertation, write the dissertation, successfully defend it at an oral defense, make any necessary changes and submit a final approved copy. Additionally, all Ph.D. students are strongly encouraged to author at least one journal article based upon their dissertation research.

Dissertation Committee

After the candidacy exams are successfully passed, the dissertation committee is formed by the student in conjunction with, and approval by, the graduate program director. A dissertation committee must have at least three members, one of whom is from outside the department of the major field of study. The members of the dissertation committee must all hold doctorates and be graduate certified unless an exception must be approved by the graduate program director and the college dean. The committee’s purpose is to supervise the entire process from proposal writing and defense through the oral defense of the dissertation. The committee supervises and approves the choosing of a topic, the choosing of a theoretical framework, the development of the research methods, the actual conduct of the research and the writing of the results.

Dissertation Letter of Intent

A dissertation starts with a letter of intent. The student will draft a 3-5 page description of the proposed study. This letter should contain the statement of purpose of the study and a brief description of why the topic is important to health services research. The letter should also identify the theoretical framework that will be employed, as well as provide an overview of the proposed methods. Where appropriate, the letter should also have an addendum that indicates the student has permission to use the proposed data source and/or access the proposed population of interest. The dissertation committee needs to unanimously approve the letter of intent in order for the student to write and defend the dissertation proposal.

Dissertation Proposal

The dissertation proposal provides a detailed explanation of the research being proposed, and should address the significance of the study, provide a substantive literature review and describe, in detail, the methods that will be used to collect data. The proposal will be defended in a public forum to which all faculty, staff and students in the college will be invited. The final draft of the dissertation proposal must be available for public viewing two weeks before the defense date. No formal work should begin on the dissertation until the dissertation committee and the graduate program director unanimously approve the dissertation proposal in writing. Dissertations can be defended prior to IRB approval/exemption. However, no data collection or interaction with study participants can ever begin until the dissertation chair and the student have obtained IRB approval or exemption. Approval of the dissertation proposal is NOT a pro forma activity and the student is cautioned never to regard it as such.

Dissertation and Final Oral Defense

The completion of a dissertation is the cornerstone of the Ph.D. program. Through the dissertation, candidates demonstrate that they are prepared to join the company of scholars and to be leaders in health services research. The candidate should work closely with his/her dissertation committee throughout this process. Dissertations must be carefully prepared, publicly available for viewing, defended in a public forum and approved by the dissertation committee, the graduate program director and the college dean.

The dissertation committee plays a vital role in the completion of the dissertation. Candidates are expected to be in regular communication with the committee chair and members regarding the progress of the study, research results and manuscript drafts. While preparing a dissertation, candidates must be continuously enrolled for a minimum of one credit hour per semester. University resources may not be used unless a candidate is officially enrolled. Advice or assistance from committee members should not be expected unless the candidate is officially enrolled.

Dissertations must be carefully prepared according to ODU guidelines using the most current version of the Guide for the Preparation of Theses and Dissertations (obtained from the Office of Graduate Studies). The APA style manual should be used to cover specific questions of style. However, the requirements of the Guide for the Preparation of Theses and Dissertations take precedence over all the guidelines contained in the APA manual. All proposed dissertation research which involves human subjects must be reviewed and approved by the college or University’s Human Subjects Committee. The process and approval must be documented in the text of the dissertation. Once the dissertation is successfully defended and in its final form, the student should ensure that five copies of the dissertation (with all necessary signatures) are given to the ODU Registrar for binding and sign the microfilming and copyright agreements. Students can choose to have additional copies bound for their own personal use. All dissertations will be published in Dissertation Abstracts International.

Once the dissertation committee approves that the dissertation is ready, the student works with the dissertation committee to set a defense date and to ensure that the defense date is made public. The student should provide sufficient copies of the dissertation for public viewing at least two weeks before the defense date. The defense itself needs to be publicized two weeks in advance as well. While the defense is publicized and open to the public in general, care should be taken to ensure that all college faculty and administrators and all departmental students receive invitations to the defense. The entire dissertation committee must attend the final oral dissertation defense. After the dissertation defense, the dissertation committee meets in a closed-door meeting to discuss the dissertation defense and to vote on its approval or disapproval. If the dissertation is not approved, it can be defended only once more (no sooner than three months after the initial defense). The final dissertation must be approved through a signature process that includes the dissertation chair, all members of the dissertation committee, the graduate program director and the dean of the College of Health Sciences. Note that a dissertation may be approved orally at the final defense, but may still require some editing before the final copy is approved by the committee. The Doctor of Philosophy in Health Services Research will be awarded upon the oral defense of the dissertation, the submission of the final approved copy of the dissertation and the completion of all other program requirements for graduation.
Continuing Education Programs
www.odu.edu/hsece

Short courses, national conferences, workshops, refresher courses, certificate programs and seminars are offered by the different schools in the college on and off campus on a noncredit continuing education (CEU) basis. Professional continuing education programs cover a wide range of topics, including environmental health, dental hygiene, dental assisting, nursing, nuclear medicine technology, health-care management, medical technology, physical therapy, community health, mental health, and chemical dependency.

- Continuing education serves the following functions:
- licensure and certification for professionals and practitioners,
- credential and degree achievement and professional development to update knowledge and skills. Clientele served by the programs include nursing and allied health professionals, human service workers, managers and supervisory personnel, technicians, laboratory personnel, and health educators.

Visit the website to view current offerings.

School of Community and Environmental Health

3134 Health Sciences Building
757-683-4259
www.hs.odu.edu/commhealth/
Deanne Shuman, PhD, Interim Chair

The School of Community and Environmental Health offers graduate and certificate programs which lead to careers in health services research, public health, community health, health care administration and environmental health, and occupational safety. The Master of Science in community health offers practicing health care professionals the opportunity to complete their degrees in a distance format with emphasis areas in environmental health, occupational safety and health, and industrial hygiene. ODU also offers a Master of Public Health degree in collaboration with Eastern Virginia Medical School.

Master of Public Health

The ODU School of Community and Environmental Health, in partnership with EVMS, offers the MPH graduate program leading to careers in the nation’s public health and environmental systems. MPH specialty tracks provided by ODU are available in health promotion and in environmental health.

The courses leading to the MPH degree are available in a blend of traditional and non-traditional teaching methods. Online options are ideal for those professionals currently engaged in public health practice, such as environmental health specialists, industrial hygienists and occupational safety specialists, and individuals who wish to earn an advanced degree for increased career mobility or to update professional skills and competencies. The course of study covers a minimum of two years including the summer term. Options for part-time students, which may take up to 6 years, are also available. The program includes core courses, specialty track courses and completion of a practicum and capstone.

The MPH Degree Program

The Master of Public Health (MPH) degree is an accredited professional degree offered by Eastern Virginia Medical School in collaboration with Old Dominion University. The program provides graduates with an understanding of the public health sciences and with knowledge and skills that can be utilized in healthcare management, population-based research and the community practice of public health.

The Program focuses upon four specialized tracks: Health Management, Epidemiology, Environmental Health; and Health Promotion. Students complete both didactic and experience-based courses. A community practicum exposes students to community organizations that support public health. The MPH degree will be granted jointly by the two sponsoring institutions. Classes are taught during three semesters each year. Full-time students are expected to take six to eight credits hours per semester. With this schedule, the required 42 credit hours could be completed in two years. Accommodation is made for part-time students who have up to 6 years to complete the course of study.

Eastern Virginia Medical School offers the tracks in Health Management and in Epidemiology. ODU offers the tracks in Environmental Health and in Health Promotion. All of the MPH core courses in the ODU Environmental Health and Health Promotion tracks are offered as distance learning courses, either web-based, televised, hybrid, or video streamed.

The Program will benefit health professionals who are or will be working in private, government or community organizations with the following responsibilities: assessing health status or needs in populations, designing and implementing programs, managing administrative functions, conducting program evaluation and outcomes research, developing coalitions to meet community needs, marketing health services, analyzing the epidemiology of specific diseases and measuring or assuring the quality of healthcare and public health services and products.

Accreditation

The State Council on Higher Education for Virginia approved the MPH program in 1999. The program has been fully accredited since 2000 by the Council on Education for Public Health (CEPH). This accreditation was renewed in 2005 for seven years. The Environmental Health track has been accredited by the National Environmental Health Science and Protection Accreditation Council (EHAC).

Sponsoring Institutions

Old Dominion University is a publicly funded university, established as an independent college in 1962 and as a university in 1969. Eastern Virginia Medical School is an academic institution dedicated to medical and health education, biomedical research and the enhancement of healthcare in eastern Virginia. EVMS and ODU have a long history of collaboration that includes several joint degree programs. Classes are held on weekday afternoons or evenings and/or on Saturdays on the EVMS and ODU campuses in Norfolk, Virginia. Courses are taught by faculty from both institutions.

MPH core courses are held at both the EVMS and ODU campuses, and may be offered as distance courses with a classroom option for local students. The Environmental Health and Health Promotion track courses are provided at the ODU campus as distance learning courses. Health Management and Epidemiology track courses are held at EVMS.

Students in the Environmental Health or Health Promotion tracks are advised by the MPH faculty at ODU. Students in the Health Management and Epidemiology tracks are advised by MPH faculty at EVMS.

Curriculum

The educational program includes 42 total credit hours. Core courses consist of 18 credit hours in Principles of Epidemiology, Health Education & Behavioral Science, Ethics in Public Health Practice, Introduction to Biostatistics, Health Administration and Organization and Environmental Health.

In addition to the core courses, students concentrate on courses in Epidemiology, Health Management, Environmental Health, or Health Promotion for an additional 9-12 credit hours. The remaining credit hours are earned through Selectives or Electives, a Community Practicum, and a Capstone culminating experience. For more detailed information on the Joint ODU/EVMS Master of Public Health Program visit:

Admission to the Program

Application to the Program

All applications for the MPH program are made through EVMS. ODU participates in the decision process for candidates for the environmental health and health promotion tracks. Admission requirements may be found at: http://www.evms.edu/evms-school-of-health-professions/public-health-master-more-information.html

To start an application go to the web site at https://secure.visualzen.com/vzcollegeapp/evms/default.aspx.

Application Procedure

Complete the online application, including personal statement and $60 application fee payable to EVMS;

Using the online application system, submit three letters of recommendation;

Submit official transcripts from all colleges and universities attended, from the registrar at those institutions;

Submit a Graduate Record Examination (GRE) score, taken within the last five (5) years, sent directly from the Educational Testing Service;

The EVMS Admissions Committee may request a personal interview to complement the information contained in the application materials. Potential applicants are encouraged to ask questions about the program through e-mail, telephone calls, or scheduling an appointment with the Program Director.

Application materials are considered on a rolling basis, starting September 1 (one year before desired matriculation) and are considered until all positions are filled.

Those U.S. students seeking financial assistance are advised to submit their applications as early as possible. Students may begin studies only in the fall term of each year.

Official transcripts should be mailed to the EVMS Director of Enrollment for Health Professions at the address shown below. If you experience technical difficulties or related problems in completing your online application, please contact:

Graduate Program in Public Health
Attention: Director of Enrollment for Health Professions
Eastern Virginia Medical School
P.O. Box 1980
Norfolk, Virginia 23507-1607
Tel: (757) 446-7153 or (757) 446-7096
Fax: (757) 446-8915

Prerequisite Courses:

For the Environmental Health track, students must have 8 credit hours each of biology, chemistry, and either physics (with a lab) or a geological science, and one course in either general college mathematics or statistics at the undergraduate level or graduate level.

For the Health Promotion, Health Management, and Epidemiology tracks there are no specific prerequisite courses.

For additional information about the MPH in the Environmental Health or the Health Promotion track, please contact the Track Coordinator at 757-683-4259.

Tuition

Tuition costs for Master of Public Health (MPH) students are based upon the number of credit hours taken per semester. Tuition is paid to EVMS for all courses, including ODU track courses. Tuition is due at the beginning of each term of your enrollment. There is no tuition difference for in-state and out-of-state residents. Additional costs to the student budget are fees, books, room/board and transportation. All fees are due at the beginning of the first term of each year.

The MPH student budget is available online at http://www.evms.edu/financial-aid/office-of-financial-aid.html. Tuition and fees are subject to change. Federal financial aid is not available to international students.

Students must show proof of major medical insurance coverage. Students who are eligible for coverage under the policy of a parent or spouse are urged to remain so. As an alternative, EVMS offers a student health insurance plan for an estimated $2,377 per year.

Non-Matriculated Students:

Students who are not seeking the Master of Public Health degree may, on a space-available basis, take up to three courses (9 credit hours) offered by the Program. If the student is later admitted to the MPH Program, the credit hours may be applied to the degree and the total tuition for the MPH degree adjusted to reflect the amount the student has already paid as a non-matriculate student. To apply as a non-matriculate student please complete the online application by clicking the link to Apply Online at https://secure.visualzen.com/vzcollegeapp/evms/default.aspx.

Curriculum

MPH Program Requirements

This is a 42 hour curriculum including a public health related capstone project that demonstrates the knowledge and the skill set to assume increasingly responsible positions in the public health sector are required to earn the MPH in any of the specialty tracks. Information on the ODU Environmental Health and Health Promotion track courses or the EVMS Epidemiology and Health Management tracks, can be found at http://www.evms.edu/evms-school-of-health-professions/master-in-public-health.html.

Master of Science - Community Health

757-683-4594

http://hs.odu.edu/commhealth/academics/ms_commhealth/

Anna Jeng, SCD, Graduate Program Director

The School of Community and Environmental Health Offer a Master of Science in Community Health with an emphasis in environmental health. The emphasis is designed to meet the needs of students seeking graduate education in the environmental health field. The goal of the program is to provide advanced understanding of huma health effort due to interaction with chemical, biological and physical agents in natural and man-made environments. Students may shape the emphasis area to meet their needs in general environmental health, industrial hygiene, occupational safety, or hazardous materials management.

Admission

The selection of community health students is based on several criteria. To qualify for admission, an applicant must meet the general University admission requirements at the graduate level. In addition, the School of Community and Environmental Health requires:

1. Two letters of recommendation from teachers, supervisors, and/or employers.
2. Evidence of a basic foundation of undergraduate courses in the life sciences, behavioral sciences, and social sciences with a minimum 2.80 grade point average. If it is determined that a student is deficient in one of these three general foundation areas, he or she may be required to take additional course work prior to admission or to enroll in undergraduate course work to strengthen the foundation area.
3. A satisfactory Graduate Record Examination (GRE) aptitude score.
4. Work experience or voluntary participation in a health-related agency or program will be evaluated as part of the student’s admission package. Students can be admitted who do not have work or volunteer experience, however, students without experience will be required to produce a portfolio of health related volunteer or work experiences that they have acquired during their time in the program.
5. A career-goals paper. This paper asks the applicant to discuss his or her career goals and the relationship of the community health graduate program to those goals. This paper is evaluated by the faculty of the school for the applicant’s ability to present a clear sense of professional purpose, as well as his or her ability to write a concise and grammatically acceptable paper.

Requirements
The curriculum includes a 24-credit hour core of environmental and community health courses that constitutes the foundation of the program complemented by a minimum of six credit hours of practicum experience or six hours of thesis research.

Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHP 600</td>
<td>Principles of Community Health</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 600</td>
<td>Principles of Environmental Health Science and Protection</td>
<td>3</td>
</tr>
<tr>
<td>MPH 612</td>
<td>Statistical Reasoning for Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 614</td>
<td>Epidemiology for Public Health Practice</td>
<td>3</td>
</tr>
<tr>
<td>CHP 601</td>
<td>Research Design and Evaluation in the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 602</td>
<td>Environmental Health Law and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 643</td>
<td>Principles of Toxicology</td>
<td>3</td>
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<tr>
<td>ENVH 566</td>
<td>Environmental Risk Assessment and Decision Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 24

Comprehensive Examinations
All candidates for the Master of Science in community health must pass a written and oral comprehensive examination covering the course work in the program of study. Comprehensive examinations are administered once a semester during the fall and spring sessions.

Thesis or Practicum Option. Students must complete a six credit practicum (CHP 669) or a six credit thesis (CHP 698).

Environmental Health Concentration Area
This emphasis has specific prerequisite courses at the undergraduate level that must be met. Also, admission to the program is at the discretion of the faculty. In addition to the core course requirements, there are specific course requirements for each concentration area.

Prerequisite Courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>General Chemistry</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

One of the following: 8

- Introduction to Physics (with a lab)
- Ocean, Earth, and Atmospheric Sciences

One of the following: 3

- General College Mathematics
- Statistics

Total Hours 27

Concentration Area Requirements
12 to 13 credit hours from the following courses or their equivalents must be taken in one of the following options in order to be eligible for the degree.

General Environmental Health:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVH 520</td>
<td>Communicable Diseases and Their Control</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 521</td>
<td>Food Safety</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 522</td>
<td>Water and Wastewater Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 523</td>
<td>Vector Control</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 524</td>
<td>Residential and Institutional Environments</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 545</td>
<td>Air Pollution and Its Control</td>
<td>3</td>
</tr>
</tbody>
</table>

Industrial Hygiene:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVH 526</td>
<td>Physical Hazards and Their Control</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 541</td>
<td>Industrial Hygiene</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 542</td>
<td>Sampling and Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ENVH 545</td>
<td>Air Pollution and Its Control</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 546</td>
<td>Physical Hazards Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ENVH 570</td>
<td>Industrial Environmental Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 822</td>
<td>Control of Hazards in the Workplace</td>
<td>3</td>
</tr>
</tbody>
</table>

Hazardous Materials Management:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVH 545</td>
<td>Air Pollution and Its Control</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 546</td>
<td>Physical Hazards Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ENVH 561</td>
<td>Hazardous Waste Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 565</td>
<td>Hazardous Materials Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 722</td>
<td>Control of Hazards in the Workplace</td>
<td>3</td>
</tr>
</tbody>
</table>

Occupational Safety:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVH 506</td>
<td>Principles of Occupational Safety and Health</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 507</td>
<td>Occupational Safety Standards, Laws and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 525</td>
<td>Occupational Safety and Health Program Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 526</td>
<td>Physical Hazards and Their Control</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 570</td>
<td>Industrial Environmental Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Certificate in Occupational Safety
Charlene Brassington, Coordinator, cbrassin@odu.edu

The certificate program in occupational safety is designed to prepare students to meet safety standards and guidelines in such areas as business, education and industry with the goal of managing operations to minimize financial losses resulting from accidents, health claims, legal actions and property damage. It is especially attractive to students in majors such as engineering, occupational and technical studies and business who may reasonably anticipate assignment of safety as an additional duty, or to individuals already employed in the occupational health and safety field.

Course taken for the Certificate may also be used to qualify for safety positions, enhance the qualifications of Certified Safety Professional (CSP) and Certified Industrial Hygienist (CIH) candidates, and provide maintenance points for professionals holding the CSP or CIH certifications. Courses in the certificate program may be taken through degree or non-degree programs, and may be applied to degree requirements at the graduate level in environmental health. For completion of the graduate certificate program students must have a minimum cumulative grade point average of 3.00 in all courses taken toward the certificate. After successful completion of the program, a Certificate in Occupational Safety will be awarded.

A total of 15-16 semester hours is required, comprised of three core courses and six to seven hours of electives. All course, with the exception of the lab course, are provided as distance learning, either as televised or web-based courses. There are no prerequisites.

Core courses include:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVH 506</td>
<td>Principles of Occupational Safety and Health</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 507</td>
<td>Principles of Occupational Safety and Health</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 525</td>
<td>Occupational Safety and Health Program Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following electives: 6-7

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVH 501</td>
<td>Occupational Health</td>
<td></td>
</tr>
<tr>
<td>ENVH 526</td>
<td>Physical Hazards and Their Control</td>
<td></td>
</tr>
<tr>
<td>ENVH 540</td>
<td>Principles of Ergonomics</td>
<td></td>
</tr>
<tr>
<td>ENVH 541</td>
<td>Industrial Hygiene</td>
<td></td>
</tr>
<tr>
<td>ENVH 542</td>
<td>Sampling and Analysis Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
Approved graduate credit hours also can be taken at another university and program is available on campus, online, or as a hybrid of the two. Up to 12 cognate offerings, travel abroad, practica and externship opportunities. The obtain additional information regarding requirements, experiential credit, today's employment market.

Master's level dental hygienists in these key areas of specialization continues evidence-based knowledge and theory through research. Demand for a specialty, such specialization is viewed as secondary to generating and community health. Although graduate education focuses on developing administration/management, research, marketing, modeling and simulation, public policy, and advocacy, just to name a few. Therefore, the program offers distinct specialty areas in which students may focus: education, administration/management, research, marketing, modeling and simulation, and community health. Although graduate education focuses on developing a specialty, such specialization is viewed as secondary to generating evidence-based knowledge and theory through research. Demand for master's level dental hygienists in these key areas of specialization continues to be strong and students are able to develop competencies essential in today's employment market.

Accelerated Program – Bachelor of Science in Environmental Health (B.S.E.H.) to Master of Science in Community Health

Accelerated Program – Bachelor of Science in Environmental Health (B.S.E.H.) to Master of Public Health (MPH)

Bachelor of Science in Environmental Health (B.S.E.H.) students who have a 3.00 GPA and have senior standing may apply for acceptance into the Bachelor of Science in Environmental Health to M.S. in Community Health accelerated program or to a Master of Public Health (MPH). This program allows gifted undergraduate B.S.E.H. students the opportunity to take up to 12 semester hours of graduate course work and apply them to both degrees. Other restrictions apply. Students interested in this program should contact the B.S.E.H. program director James English at 757-683-6010 for more information.

Gene W. Hirschfeld School of Dental Hygiene

2011 Health Sciences Building
757-683-3338
http://hs.odu.edu/dental/academics/ms/about.shtml

Master of Science - Dental Hygiene

757-683-5150
http://www.hs.odu.edu/dental/academics/ms/about.shtml

Gayle McCombs, Graduate Program Director

The challenge of effecting change in the scope and direction of dental hygiene and health care requires expert skills in problem solving, evidence-based decision making, and leadership.

Recipients of the Master of Science degree in dental hygiene develop skills to meet complex national and global health challenges in professional education, knowledge-generation, information transfer, and health care for all members of society. Within a multidisciplinary, multicultural curricular framework that integrates theory, research, and practical experience, the competency-based program links the goals and career aspirations of the student with relevant learning experiences, technologies, and resources to facilitate career advancement. Through specialized skills training, graduates are prepared to assume leadership roles necessary for quality professional dental hygiene care and advancing knowledge and practice.

Solutions to complex health problems need the participation of dental hygienists educated in community health, research, management, education, public policy, and advocacy, just to name a few. Therefore, the program offers distinct specialty areas in which students may focus: education, administration/management, research, marketing, modeling and simulation, and community health. Although graduate education focuses on developing a specialty, such specialization is viewed as secondary to generating evidence-based knowledge and theory through research. Demand for master's level dental hygienists in these key areas of specialization continues to be strong and students are able to develop competencies essential in today’s employment market.

Applicants are encouraged to contact the graduate program director to obtain additional information regarding requirements, experiential credit, cognate offerings, travel abroad, practica and externship opportunities. The program is available on campus, online, or as a hybrid of the two. Up to 12 approved graduate credit hours also can be taken at another University and applied toward degree requirements, making this program one of the most flexible in the nation. Other advantages of graduate study at Old Dominion University include the opportunity to engage in learning within the state-of-the-art Dental Hygiene Care Facility and Dental Hygiene Research Center, the hub for independent investigations with other scholars both within and external to the University; the student-focused, nationally and internationally recognized faculty committed to the educational preparation of dental hygienists leading to degrees at advanced levels; and the opportunity to segue to doctoral education in health services research within the College of Health Sciences.

Admission Information

To qualify for admission, the applicant must possess a certificate or associate degree from an accredited dental hygiene program and a baccalaureate degree in dental hygiene or a related field. The applicant must have an overall grade point average (GPA) of at least 2.80 (on a 4.00 scale) in undergraduate education and a minimum of 3.00 in the undergraduate dental hygiene major.

The following documents must be submitted for program consideration:

1. The official National Board Dental Hygiene Examination passing score,
2. Recommendation form from a previous clinical supervisor
3. Recommendation form from a dental hygiene program director
4. Recommendation forms from two academic sources (employer in the field may substitute)
5. A formal written statement of personal goals and objectives
6. A clinical self assessment
7. Official transcripts of all college work

Forms are available at www.hs.odu.edu/dental/academics/ms.app.shtml. International applicants must score at least a 550 on the TOEFL or 79 on the TOEFL iBT.

Visit: International Admission and Immigration at: http://admissions.odu.edu/international

Visit: International Student and Scholar Services at: http://studentaffairs.odu.edu/iss.

Applicants whose qualifications are slightly below the required level will be considered for admission to provisional status and may be required to take additional course work. The master’s degree program is available under the Southern Regional Education Board’s (SREB) Academic Common Market. Applicants who are legal residents of Delaware, Kentucky, Mississippi, or South Carolina may enroll, if accepted, as Academic Common Market students at in-state tuition rates. Students also may be required to take undergraduate courses or non-credit courses to make-up deficiencies in other areas.

For additional information, visit http://www.schev.edu/students/Acmvainstable.asp http://sreb.org/programs/acm/acmindex.asp.

Degree Requirements

Students must complete all courses within a six-year time period with a minimum GPA of 3.0 on a 4.0 scale. Students must also successfully present and defend a thesis research or nonthesis project and pass an oral comprehensive examination. Students not graduating from the BSDH program at Old Dominion University must also pass a writing examination. Competencies for the Master of Science in dental hygiene program are found at www.hs.odu.edu/dental/academics/ms/bsdhcompetencies.pdf.

Thesis degree requirements include a minimum of 34 semester hours. Nonthesis degree requirements require 37 semester hours distributed as follows:

Curriculum Core Requirements. All core requirements may be taken on campus or online. Candidates are required to fulfill a 22 credit hour core requirement to include:
DNTH 514  Educational Concepts for the Health Professional I  3
DNTH 515  Research Methods in the Health Sciences  3
DNTH 516  Administrative Leadership and Professional Development  3
DNTH 604  Clinical Administration and Teaching  4
DNTH 660  Educational Concepts for the Health Professional II  3
DNTH 668  Internship  3-9
CHP 640  Data Interpretation Methods for Health Care  3
or FOUN 722  Introduction to Applied Statistics and Data Analysis

Total Hours  22-28

Specialty Area. Candidates must select one of the six specialty areas:
Education, Community Health, Administration/Management, Research, Marketing, or Modeling and Simulation and complete the required six to 12 credit hours satisfactorily. Each specialty area includes electives chosen to support the specialty area. Students may also be generalists.

Thesis Option (34 credit hours). Candidates are required to complete a minimum of six credit hours in:
DNTH 698  Research  3
DNTH 699  Thesis  3

Total Hours  3

This option requires original thesis research and writing for a total minimum program requirement of 34 credit hours and is considered essential for students interested in developing investigative and data management skills. The student is encouraged to become familiar with possible research areas soon after admission and contact the graduate program director to discuss the research proposal, funding options and the selection of the thesis committee. The student will be provided with a committee consisting of the thesis advisor and two other faculty members selected by the graduate program director and the student. Prior to beginning the research, the student will present a written proposal to the thesis committee for approval. Candidates choosing the thesis option must satisfactorily complete the thesis at least four weeks prior to graduation with copies delivered to the thesis committee. An oral comprehensive examination and thesis defense will be conducted by the student’s thesis committee during the last four weeks of the semester prior to graduation. The cost of the thesis is a student expense. The thesis option is not available to distance learning (on-line) students.

Nonthesis Option. (37 credit hours). Candidates are required to complete:
DNTH 698 (3 credits) and a minimum of three (3) additional credits of approved elective course work. This option is designed for students pursuing a less research-oriented program of study. A student in this program is required to complete an in-depth term paper or execute a modest project as approved by the faculty. An oral comprehensive examination and project defense will be conducted prior to graduation.

Writing Proficiency. Students who do not hold an undergraduate degree from Old Dominion University are required to participate in diagnostic writing exercises for evaluation by the staff of the Testing Center. Each student is responsible for making an appointment with the Testing Center to complete this requirement early in the first semester of graduate studies. Students deemed deficient in writing skills will be required to remedy their deficiency through the services of the Writing Center prior to the completion of 15 graduate credits. Students who fail to participate in the diagnostic writing exercise or to complete recommended developmental work through the Testing Center will not be allowed to register for subsequent semesters. All faculty members in the school require written assignments, which will be evaluated on the basis of form and content. If needed, resources are available through the Writing Center. Graduate students and faculty employ the current edition of the Publication Manual of the American Psychological Association as the standard reference text for written assignments within the School of Dental Hygiene.

Dental Hygiene Research Center
The ODU Dental Hygiene Research Center is dedicated to conducting quality, multidisciplinary, clinical, and population-based research to explore diagnosis, pathogenesis, and treatment of conditions that are related to overall health and dental hygiene. The Center, officially sanctioned by the University in 2000, is the first facility in the world dedicated solely to dental hygiene research. The Center strives to advance oral and general health through interdisciplinary and multidisciplinary research in collaboration with other academic institutions, medical facilities, private industry, and the community.

The Center represents a research paradigm unique for graduate education in that no other dental hygiene program has such a facility. Research is an integral and essential component of the School of Dental Hygiene’s mission. Students experience the link between theory and practice, and collaborate with faculty to create new knowledge via discovery, apply evidence-based findings, and disseminate information through professional publications and presentations.

Accelerated Bachelor’s to Master’s Program
Dental hygiene students who have a 3.25 grade point average from each institution attended and who have senior standing may apply to the bachelor’s to master’s accelerated program. This program allows gifted undergraduate students the opportunity to take up to 12 semester hours of graduate coursework and apply them to both degrees. Consult with the graduate program director for more information.

International Dental Hygiene
The School of Dental Hygiene, committed to solving global oral health problems, offers a variety of service learning programs in partnership with non-governmental agencies, academic institutions, and private organizations worldwide. Faculty-led experiences offer unique opportunities for students to travel abroad, develop cross-cultural competence, experience global health challenges, and engage in projects that advance oral health worldwide. International locations are determined by the School of Dental Hygiene in conjunction with the Office of Study Abroad. Program participation requires approval from the School of Dental Hygiene and the Office of Study Abroad.

School of Medical Laboratory and Radiation Sciences
Molecular Diagnostics Certificate Program
www.hs.odu.edu/medlab/academics/mddiag/
Patricia Hentosh, Sc.D., Program Director

The discipline of molecular diagnostics includes all tests and methods to identify disease, a predisposition for a disease, diagnosis and prognosis of disease and potential responses to drug therapy by analysis of an individual’s DNA, RNA, and proteins. Molecular technology is now widely applied to infectious disease, genetics testing, identification of methicillin-resistant Staph aureus (MRSA); cancer diagnosis and metastasis, forensic science, and personalized medicine.

The post-baccalaureate molecular diagnostics certificate program is designed to provide fundamental principles, advanced applications and laboratory skills needed for molecular diagnostic and molecular biology procedures conducted in clinical and research environments.

The Certificate is awarded upon completion of 12 credit hours in a coherent sequence with a 3.0 GPA. The following courses are required: MLRS 500, MLRS 501, MLRS 600 and MLRS 601. An optional internship in a clinical or molecular laboratory is also offered (MLRS 668).
Modeling and Simulation Certificate in Health Sciences

http://hs.odu.edu/hs/academics/ms

Gianluca DeLeo, PhD, MBA, Program Coordinator

The Modeling and Simulation in Health Sciences certificate program is designed for students to develop competency in the use of modeling and simulation techniques and technologies to support health sciences research, policy-making, and training.

The University Modeling and Simulation Steering Committee sets the basic standards regarding the components of a Graduate Certificate in Modeling & Simulation. The basic certificate requires four (4) three-hour courses for a total of twelve (12) required credits. A basic simulation core of 3 or 6 credits is required, plus 6 or 9 credits of discipline specific work. A 3.00 GPA for the four-course sequence is required for successful completion. Admission to the certificate program requires a bachelor’s degree (or equivalent).

M&S Certificate in Health Sciences – Version 1

<table>
<thead>
<tr>
<th>Required Credits</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSIM 611</td>
<td>Modeling and Simulation Fundamentals I</td>
</tr>
<tr>
<td>MSIM 612</td>
<td>Modeling and Simulation Fundamentals II</td>
</tr>
<tr>
<td>HLSC 795/895</td>
<td>Topics in Health Sciences (Special Topics - M&amp;S in Health Sciences)</td>
</tr>
<tr>
<td>HLSC 795/895</td>
<td>Topics in Health Sciences (Special Topics - GIS in Health Sciences)</td>
</tr>
<tr>
<td>Basic Simulation Core</td>
<td>3-6</td>
</tr>
<tr>
<td>Discipline Specific Work</td>
<td>6-9</td>
</tr>
<tr>
<td>Total Hours</td>
<td>21-27</td>
</tr>
</tbody>
</table>

For students with substantial mathematics and computing backgrounds, MSIM 601 may replace MSIM 611 and MSIM 612. A fourth course must be chosen to complete the 12 credit requirement.

M&S Certificate in Health Sciences – Version 2

<table>
<thead>
<tr>
<th>Required Credits</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSIM 601</td>
<td>Introduction to Modeling and Simulation</td>
</tr>
<tr>
<td>HLSC 795</td>
<td>Topics in Health Sciences</td>
</tr>
<tr>
<td>M&amp;S Elective</td>
<td></td>
</tr>
<tr>
<td>Basic Simulation Core</td>
<td>3-6</td>
</tr>
<tr>
<td>Discipline Specific Work</td>
<td>6-9</td>
</tr>
<tr>
<td>Total Hours</td>
<td>16-24</td>
</tr>
</tbody>
</table>

School of Nursing

www.hs.odu.edu/nursing

3009 Health Sciences Building

757-683-4298

Karen Karlowicz, Chair

The program leading to the Master of Science in Nursing is designed to prepare graduates with expertise in theory, research, and advanced nursing practice. Through academic courses and clinical experiences, graduate students are prepared to meet the present nationwide demand for nurses in advanced practice, leadership and education as well as to pursue doctoral study. The master’s program in nursing is fully accredited by the Commission on Collegiate Nursing Education.

Students in the program may specialize in a variety of roles. All specialties emphasize development of the nursing role through advanced theory and research. The program strives to instill in its graduates leadership responsibility, professional commitment, and a holistic approach to health and nursing care.

The number of credits required for the Master of Science in Nursing degree varies and reflects the number of hours in the core plus the hours required for certification in a specialty. The nurse anesthesia role option requires 83 credits. Nurse practitioner role options include family nurse practitioner (47 credit hours) and women’s health nurse practitioner (46 credit hours). There is a joint program with Shenandoah University in nurse midwifery that is 47 credits. The nurse administrator program web-based program requires 31 credit hours, Adult-Gerontology Clinical Nurse Specialist program is 45 credits and the web-based nurse educator program requires 36 credit hours.

Also available are, post-master’s programs for M.S.N. prepared nurses to obtain nurse practitioner, nurse anesthesia, nurse administrator and nurse educator preparation.

Admission to the Graduate Program

1. In addition to meeting University and college requirements, applicants must have:
   - Completed a baccalaureate degree with an upper-division major in nursing from a National League for Nursing accredited college or university program, or Commission on Collegiate Nursing Education accredited college or university program or the equivalent.
   - Demonstrated graduate potential by satisfactory scholastic achievement in the baccalaureate nursing program (grade point average of 3.00 on a 4.00 scale).
   - Completed an undergraduate course in statistics.
   - Completed a health assessment component (undergraduate)
   - Attained a satisfactory score on the Miller Analogies Test (MAT) or the Graduate Record Examination (GRE), taken within the past five years.
   - A current license as a registered nurse.
   - At least one year of recent clinical nursing experience. Applicants for the nurse anesthesia role must have at least a minimum of one year (2080 hours) of full time nursing experience in an intensive care unit within the 2 years prior to application.
   - Presented three letters of professional reference, including one from the dean or a member of the nursing faculty in the baccalaureate program in nursing and two from the most recent employer.
   - Completed the Supplementary Application for Admission to the Master of Science in Nursing Program, including the short essay (500 to 700 words) describing professional and academic goals, and how graduate study in nursing will contribute to the fulfillment of these goals.

An interview may be advised for prospective students. Also, students applying to the nurse anesthesia program should contact the director of the nurse anesthesia program at (757) 683-5068. For full consideration, applications for the nurse anesthesia program must be submitted by December 1 of the year prior to the August starting date.

Students applying to a post-master’s program must have a master’s degree in nursing.

Degree Requirements

In addition to general University requirements, the following apply to candidates for the Master of Science in Nursing degree:

1. Only degree-seeking students may take graduate nursing courses.
2. Full-time or part-time study is available for most roles. Part-time students are required to complete all program requirements within a six-year period. Some roles have only full-time programs. Contact the graduate nursing office regarding study options for each program at (757) 683-4298.
3. A written comprehensive examination covering the program of study is required by the final semester of study for students not electing to complete a thesis. A comprehensive examination in the role specialty is required for all postmaster’s students. A student must be registered in the semester the comprehensive exam is taken.
4. The student must make arrangements three months in advance to take a nursing course with a laboratory or practicum component to assure appropriate and available placement for the learning experience. Arrangements are made through the change to SON Student Clinical Services Coordinator.

5. The B grade (3.00) is the minimal acceptable grade for all courses with a NURS or NURA prefix or any course required for the degree for continuation in the master’s program. Satisfactory performance in the laboratory or practicum component of a nursing course is required. Students achieving less than a B grade (3.00) in a nursing course may request an opportunity from the role graduate program director to repeat the course once. Two course failures will result in termination from the nursing program. Students may not progress with an incomplete prerequisite courses as listed in the curriculum plan.

Additional requirements such as physical exams, CPR certification, immunization requirements, professional liability insurance, computer competencies and technical standards and background checks for the School of Nursing are also available in the Nursing Student Handbook and on the School of Nursing web page.

### Master of Science in Nursing – Women’s Health Nurse Practitioner Role

Kathleen Putnam, Graduate Program Director

The Women’s Health Nurse Practitioner track in the graduate nursing program is designed to provide students with education and experience to become primary care providers in women’s health. Graduates are qualified to take the Women’s Health Nurse Practitioner certification examination offered by the National Certification Corporation. Students participate in a variety of women’s health practice experiences with preceptors and are required to complete clinical practice in primary adult health. All courses in the previous semester must be completed before taking courses in the subsequent semesters unless admitted to the part-time curriculum. Course work may be completed according to the full-time or part-time curriculum. The following courses are prerequisites to all FNP content course and clinical courses.

### WHNP Full Time Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 610</td>
<td>Theoretical Foundations for Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 670</td>
<td>Advanced Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 671</td>
<td>Advanced Physical Assessment</td>
<td>1</td>
</tr>
<tr>
<td>NURS 672</td>
<td>Advanced Physical Assessment Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 661</td>
<td>Pharmacotherapeutics for Primary Health Care Providers</td>
<td>3</td>
</tr>
<tr>
<td>NURS 719</td>
<td>Family and Community Focused Primary Care</td>
<td>1</td>
</tr>
<tr>
<td>NURS 611</td>
<td>Research Design</td>
<td>3</td>
</tr>
<tr>
<td>NURS 663</td>
<td>Health Promotion and Maintenance</td>
<td>2</td>
</tr>
<tr>
<td>NURS 664</td>
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<td>NURS 658</td>
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<td>NURS 762</td>
<td>Advanced Family Nursing I: Management of Acute Illnesses</td>
<td>3</td>
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<tr>
<td>NURS 613</td>
<td>Issues in Advanced Nursing Practice</td>
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<tr>
<td>NURS 621</td>
<td>Aging in the 21st Century</td>
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<td>NURS 659</td>
<td>Advanced Nursing Practice in Women’s Health II</td>
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<td>NURS 787</td>
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<td>NURS 660</td>
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### FNP Full Time Curriculum

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<td>Pharmacotherapeutics for Primary Health Care Providers</td>
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<td>Advanced Pathophysiology</td>
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</tr>
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<td>NURS 672</td>
<td>Advanced Physical Assessment Laboratory</td>
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<td>NURS 719</td>
<td>Family and Community Focused Primary Care</td>
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<td>NURS 611</td>
<td>Research Design</td>
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<td>NURS 663</td>
<td>Health Promotion and Maintenance</td>
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<td>NURS 664</td>
<td>Primary Care for Women</td>
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<td>NURS 665</td>
<td>Advanced Family Nursing I Practicum</td>
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<tr>
<td>NURS 762</td>
<td>Advanced Family Nursing I: Management of Acute Illnesses</td>
<td>3</td>
</tr>
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<td>Issues in Advanced Nursing Practice</td>
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<td>NURS 705</td>
<td>Primary Care Approaches for Children</td>
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<td>Advanced Family Nursing II Practicum</td>
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<td>NURS 765</td>
<td>Advanced Family Nursing II: Management of Chronic Illnesses</td>
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<td>NURS 767</td>
<td>Advanced Family Nursing III Practicum</td>
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<td>NURS 768</td>
<td>Nursing Seminar in Complex Health Problems</td>
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<td>NURS 690</td>
<td>M.S.N. Comprehensive Examination</td>
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Total Hours: 46

### Master of Science in Nursing – Family Nurse Practitioner Role

Micah Scott, Graduate Program Director

The family nurse practitioner (FNP) role prepares graduate students to provide a full range of primary care services to individuals and families throughout the life span. In collaboration with other health care professionals, graduate students provide health promotion, health maintenance and restorative care to well, at-risk, and chronically ill clients and their families. Student clinical experiences are provided in a variety of primary care settings. Successful completion of the program qualifies students to register for the AANP or ANCC examination for certification as a family nurse practitioner.

### Degree Requirements

Full-time and part-time curricula are available. No FNP course may be taken unless admitted to the FNP program. Unless specifically stated, all courses in the previous semester must be completed before taking courses in the subsequent semesters unless admitted to the part-time curriculum. Course work may be completed according to the full-time or part-time curriculum. The following courses are prerequisites to all FNP content course and clinical courses.
Master of Science in Nursing – Nurse Anesthesia Specialty
Nathaniel Apatov, Graduate Program Director

The Master of Science in Nursing program in nurse anesthesia is an 83-credit, 28-month program beginning in late August. During the first year, the program is designed to introduce students to the basic theoretical knowledge and skills necessary for advanced nursing practice in nurse anesthesia. The first 12 months of the program are primarily didactic. The last 16 months of the program are the clinical component comprised of both general and regional anesthesia techniques for surgery and clinical specialties such as eyes, ears, nose and throat, neurosurgery, vascular surgery, open heart, obstetrics, trauma, and organ transplants. During this phase of the program, the student returns to the classroom on a weekly basis for extensive clinically related study.

Upon successful completion of the 28-month program, the graduate receives the M.S.N. degree, and becomes eligible to write the National Certifying Examination for Nurse Anesthetists given by the Council on Certification of Nurse Anesthetists. Graduates successfully completing this exam become Certified Registered Nurse Anesthetists (CRNAs).

A prerequisite for enrollment in the first year first semester is degree seeking status and admission to the MSN-Nurse Anesthesia track. Successful completion of courses in the previous semester is a prerequisite for enrollment in the next semester. All courses within a semester are corequisites and must be taken together.

Nurse Anesthesia Full Time Curriculum
First Semester (Fall)
NURS 610 Theoretical Foundations for Nursing Practice 3
NURS 646 Structure and Function for Advanced Nursing Practice I 3
NURA 660 Pharmacotherapeutics for the Nurse Anesthetist 3
NURA 650 Medical Physical Sciences 3
NURA 654 Professional Aspects of Anesthesia 3
Second Semester (Spring)
NURS 611 Research Design 3
NURS 647 Structure and Function for Advanced Nursing Practice II 3
NURA 651 Pharmacology of Anesthesia Drugs 4
NURA 652 Principles of Anesthesia Practice I 4
Third Semester (Summer)
NURA 694 Advanced Physical Assessment for Nurse Anesthetists 3
NURA 653 Principles of Anesthesia Practice II 4
NURA 754 Anesthesia Practicum 4
NURS 648 Disease Processes for Advanced Practice 3
Fourth Semester (Fall)
NURA 655 Principles of Anesthesia Practice III 4
NURA 755 Clinical Practicum A 6
Fifth Semester (Spring)
NURA 756 Clinical Practicum B 10
Sixth Semester (Summer)
NURA 757 Clinical Practicum C 10
Seventh Semester (Fall)
NURA 758 Clinical Practicum D 10
NURS 690 M.S.N. Comprehensive Examination 0

Total Hours 83

Master of Science in Nursing - Adult-Gerontology Clinical Nurse Specialist/Educator Role
Kim Curry-Lourenco, Interim Graduate Program Director
Debra Murray, DNP, MHR, RN, C-PNP

The School of Nursing offers a curriculum leading to the degree of Master of Science in Nursing with an advanced practice area of Adult-Gerontology Clinical Nurse Specialist and Nurse Educator. The program of study prepares students as expert clinicians in the application of evidence-based knowledge within the realms of nursing interventions, teaching and research. Students also receive preparation as nurse educators, and are therefore dually prepared for clinical and academic roles.

The program requires course content in theory, research, education, Adult-Gerontology CNS professional and clinical cores, and the advanced practice area with a selected secondary focus. Applicants are admitted for either full-time or part-time study and can begin in fall. The curriculum is designed to prepare nurses as Adult-Gerontology Clinical Nurse Specialists with a secondary clinical focus in an area of their choice. Graduates of this program are eligible to sit for the American Nurses’ Association (ANCC) Adult-Gerontology Clinical Nurse Specialist Certification Exam.

Adult-Gerontology Clinical Nurse Specialist/Educator Full Time Curriculum
First Semester (Fall)
NURS 610 Theoretical Foundations for Nursing Practice 3
NURS 670 Advanced Pathophysiology 3
NURS 671 Advanced Physical Assessment 1
NURS 661 Pharmacotherapeutics for Primary Health Care Providers 3

Credit Hours 11
Second Semester (Spring)
NURS 611 Research Design 3
NURS 638 Adult-Gerontology Clinical Nurse Specialist I: Introduction to Practice 2
NURS 639 Adult-Gerontology Clinical Nurse Specialist Practicum I: Role Socialization 3
NURS 615 Ethics of Advanced Practice Nursing 2
NURS 630 Nursing Curriculum Design and Program Evaluation 3

Credit Hours 13
Third Semester (Summer)
NURS 661 Research Design 3
NURS 638 Adult-Gerontology Clinical Nurse Specialist II: Transition to Practice 2
NURS 657 Adult-Gerontology Clinical Nurse Specialist Practicum II: Role Transition 3
NURS 676 Professional, Ethical and Legal Concepts of Nursing Education 3
NURS 621 Aging in the 21st Century 3

Credit Hours 10
Fourth Semester (Fall)
NURS 732 Health Care Populations, Diversity and Outcomes 3
NURS 632 Instructional Delivery Methods and Learner Assessment 3
NURS 634 Nurse Educator/Faculty Internship I Classroom Instruction 2
NURS 703 Adult-Gerontology Clinical Nurse Specialist Practicum III: Role Synthesis 3
NURS 690 M.S.N. Comprehensive Examination 0

Credit Hours 11

Total Credit Hours 45
Master of Science in Nursing - Nurse Administrator Role

Carolyn Rutledge, Graduate Program Director

The Nurse Administrator role prepares the graduate for leadership positions in an integrated delivery system. The curriculum is designed to provide the graduate student with knowledge and advanced problem solving skills to address community and organizational issues. New models of health care delivery and the role of the advanced practice nurse in assuring effective organizations and healthy communities are analyzed.

Specialty courses focus on leadership skills in communities and organizations, needs assessments, group and organizational strategies, program development and health care evaluation. During internships students may investigate a variety of health problems or care delivery issues in either acute care or community-based settings.

Nurse Administrator Full Time Curriculum

<table>
<thead>
<tr>
<th>First Semester (Fall)</th>
<th>NURS 610</th>
<th>Theoretical Foundations for Nursing Practice</th>
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<tbody>
<tr>
<td></td>
<td>NURS 616</td>
<td>Organizational Leadership: Transformational Strategies in Focus Area</td>
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<tr>
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<td>NURS 732</td>
<td>Health Care Populations, Diversity and Outcomes</td>
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<td>NURS 735</td>
<td>Organizational Leadership</td>
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<td>NURS 617</td>
<td>Strategic Leadership: Transformational Strategies in Focus Area</td>
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<td>NURS 740</td>
<td>Strategic Leadership</td>
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<tr>
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<td>NURS 780</td>
<td>Financial Issues in Nursing Administration</td>
<td>3</td>
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<td>Third Semester (Summer)</td>
<td>NURS 620</td>
<td>Professional Relationships and Human Resources Management</td>
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<tr>
<td></td>
<td>NURS 812</td>
<td>Evidence Based Management for Quality Healthcare</td>
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<td>NURS 814</td>
<td>Competitive Resource Design and Utilization</td>
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Master of Science in Nursing - Nurse Midwifery (cooperative program with Shenandoah University)

Kathleen Putnam, ODU Graduate Program Director
Juliaani Fehr, Shenandoah University Coordinator

The Master’s in Nursing, with specialization in nurse midwifery, is a joint program with Shenandoah University. The two-year program includes advanced practice nursing content offered by Old Dominion University in the Hampton Roads region at eight distance sites in Virginia during the first year. The second year in the midwifery program is at Shenandoah University. The Master of Science in Nursing is awarded by Old Dominion University and a certificate of midwifery specialty is awarded by Shenandoah University. Graduates are eligible to take the national midwifery certification examination. The program may be completed as a full-time or part-time program.

Nurse Midwifery Full Time Curriculum

| First Semester (Fall) (ODU) | NURS 610 | Theoretical Foundations for Nursing Practice | 3 |
|                            | NURS 661 | Pharmacotherapeutics for Primary Health Care Providers | 3 |

Doctor of Nursing Practice (DNP) - Advanced Practice

Carolyn Rutledge, Graduate Program Director

The Doctor of Nursing Practice (DNP) degree will provide additional education for advanced practice nurses in:

1. Advanced diagnostics and practice skills
2. Care of the underserved and increasingly diverse population
3. Incorporation of emerging care technologies. It is designed as a post MS or MSN degree. It can also be combined with the FNP, WHNP, CRNA and CNS MSN programs. The program may be completed as a full-time or part-time student and is distance friendly.

In order to graduate from Old Dominion University’s DNP Program, a student must have successfully completed all 36 post-masters credit hours of required course work, including an evidence-based capstone project and all clinical practice. It will take a full-time student four semesters (spring, summer, fall and spring) to complete the program. A part-time student will complete the DNP program in seven semesters (spring, summer, fall, spring, summer, fall, and spring.)

DNP Advanced Practice Full Time Curriculum

| First Semester (Spring) | NURS 800 | DNP Integrative Concepts I | 2 |
### BS to MSN-FNP/DNP Full Time Curriculum

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<th>Semester</th>
<th>Course Code</th>
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<td>The Business of Advanced Nursing Practice</td>
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<td>NURS 805</td>
<td>Clinical Research Methods</td>
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<td>NURS 865</td>
<td>Clinical Practicum I</td>
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<td>Second Quarter (Summer)</td>
<td>NURS 801</td>
<td>DNP Integrative Concepts II</td>
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<td>NURS 806</td>
<td>Practice-Based Research/Evaluation</td>
<td>4</td>
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<td></td>
<td>NURS 866</td>
<td>Clinical Practicum II</td>
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<tr>
<td>Third Quarter (Fall)</td>
<td>NURS 803</td>
<td>Leadership/Management in Healthcare</td>
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<td>NURS 807</td>
<td>Informatics/Database Management</td>
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<td>NURS 867</td>
<td>Clinical Practicum III</td>
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<td>Fourth Quarter (Spring)</td>
<td>NURS 809</td>
<td>Health Care Planning and Policy for Advanced Practice</td>
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<td>NURS 868</td>
<td>Clinical Practicum IV</td>
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<td>NURS 890</td>
<td>Nursing Capstone (DNP Capstone)</td>
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### Eighth Semester (Spring)

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<td>NURS 868</td>
<td>Clinical Practicum IV</td>
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### BS to MSN-WHNP/DNP Full Time Curriculum

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<td>NURS 610</td>
<td>Theoretical Foundations for Nursing Practice</td>
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<tr>
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<td>NURS 661</td>
<td>Pharmacotherapeutics for Primary Health Care Providers</td>
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<td>Advanced Pathophysiology</td>
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<td>Advanced Physical Assessment Laboratory</td>
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<td>NURS 719</td>
<td>Family and Community Focused Primary Care</td>
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<td>Second Quarter (Spring)</td>
<td>NURS 611</td>
<td>Research Design</td>
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<td>NURS 663</td>
<td>Health Promotion and Maintenance</td>
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<td>Primary Care for Women</td>
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<td>Advanced Family Nursing I Practicum</td>
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<td>Advanced Family Nursing I: Management of Acute Illnesses</td>
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<td>Third Quarter (Summer)</td>
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<td>Fourth Quarter (Fall)</td>
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<td>Advanced Perinatal Nursing</td>
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<td>NURS 660</td>
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<td>NURS 686</td>
<td>Synthesis of Advanced Practice Concepts in Adolescent Focus</td>
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<td>Sixth Quarter (Summer)</td>
<td>NURS 800</td>
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<td>NURS 802</td>
<td>The Business of Advanced Nursing Practice</td>
<td>3</td>
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<tr>
<td></td>
<td>NURS 805</td>
<td>Clinical Research Methods</td>
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<td>NURS 865</td>
<td>Clinical Practicum I</td>
<td>2</td>
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<tr>
<td>Seventh Quarter (Fall)</td>
<td>NURS 801</td>
<td>DNP Integrative Concepts II</td>
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<td>NURS 806</td>
<td>Practice-Based Research/Evaluation</td>
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<td>NURS 866</td>
<td>Clinical Practicum II</td>
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<td>Leadership/Management in Healthcare</td>
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<td>Informatics/Database Management</td>
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<tr>
<td>Total Hours</td>
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</table>

### Doctor of Nursing Practice – Nurse Executive

Carolyn Rutledge, Graduate Program Co-Director
Michelle Renaud, Graduate Program Co-Director

The Nurse Executive role prepares top level nurse executives for leadership positions in a health system. The program outcomes are consistent with the American Organization of Nurse Executive guidelines for nurse executive practice. Content focuses on executive leadership skills, working with vulnerable populations, fiscal and human resource management, quality magnet achievement, emerging technology and organizational research in clinical issues. Students participate in executive internships throughout the program in their home area. Upon program completion, graduates are eligible to take the national certification examination.

DNP Nurse Executive Full Time Curriculum

First Semester (Spring)
- NURS 800 DNP Integrative Concepts I 2
- NURS 805 Clinical Research Methods 2
- NURS 810 Leadership in Complex Systems and Organizations 3
- NURS 816 Nursing Executive Leadership I 1-3

Second Semester (Summer)
- NURS 806 Practice-Based Research/Evaluation 4
- NURS 812 Evidence Based Management for Quality Healthcare 3
- NURS 817 Nursing Executive Leadership II 3-5

Third Semester (Fall)
- NURS 807 Informatics/Database Management 3
- NURS 814 Competitive Resource Design and Utilization 3
- NURS 818 Nursing Executive Leadership III 3-5

Fourth Semester (Spring)
- NURS 809 Health Care Planning and Policy for Advanced Practice 3
- NURS 819 Nursing Executive Leadership IV 3-5
- NURS 890 Nursing Capstone (DNP Capstone) 3

Total Hours 36-44

School of Physical Therapy

3118 Health Sciences Building
757-683-4519
www.hs.odu.edu/physther/

Martha Walker, Chair and Graduate Program Director

Doctor of Physical Therapy Degree

The Doctor of Physical Therapy (http://hs.odu.edu/physther/) program is designed to professionally prepare students with the knowledge and clinical experiences to become licensed physical therapists who will enter general physical therapy practice. Upon graduation, students will be prepared to sit for licensure in any United States jurisdiction and practice in any health care setting where physical therapy is offered. The curriculum consists of 117 credit hours over a three-year period of time including summers. There are five full-time clinical internships totaling 40 weeks. The first three are completed over the second and third summers, with the final 16 weeks of clinical education occurring in the spring semester preceding graduation. A variety of clinical facilities locally, throughout Virginia, and the United States are used for internship experiences. Students are responsible for providing their own transportation to these off-campus clinical sites.

Requirements for Admission

Students are admitted to the program after completion of a bachelor’s degree and prerequisite course work. The application deadline is November 1 of each year, and the program begins the last week in June. Specific procedures for admission must be followed including the verification of meeting the technical standards. Admission into the program is competitive.

An application to the University and a separate application to the Physical Therapy Centralized Application Service (PTCAS) must be submitted. The PTCAS website will be open to applicants August 1 each year at www.PTCAS.org (http://www.PTCAS.org). Please follow the directions for application found at the PTCAS site.

A competitive admission process is used for determining acceptance. Qualified high school students may apply for admission with guaranteed entry into the Doctor of Physical Therapy program. For criteria and additional information, please contact the Office of Admissions (800-348-7926 or 757-683-3685) or the College of Health Sciences advisor at (757) 683-5137.

Degree Requirements

Prerequisite courses include the following:

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<th>Credit Hours</th>
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<td>BIOL 115N</td>
<td>General Biology I</td>
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<td>BIOL 250</td>
<td>Human Anatomy and Physiology I</td>
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<td>BIOL 251</td>
<td>Human Anatomy and Physiology II</td>
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<td>Two semesters of Chemistry, including labs</td>
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</tr>
<tr>
<td>Two semesters of Physics, including labs</td>
<td>8</td>
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<tr>
<td>Psychology</td>
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<tr>
<td>Social Studies Elective: 2nd Psychology, Sociology or Anthropology</td>
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</table>

An introductory course in Biomechanics or Kinesiology recommended but not required

Total Hours 37

Students are required to pass written and oral comprehensive examinations prior to graduation. Comprehensive examinations take place in the final academic semester prior to the terminal two clinical internships.

Curriculum Schedule

Year 1

Summer
- PT 621 Introduction to Physical Therapy 2
- BIOL 889 Gross Anatomy 6

Fall
- PT 627 Theory and Practice I 4
- PT 630 Concepts in Histology for Physical Therapy 1
- PT 634 Clinical Sciences I 3
- PT 640 Patient Evaluation I 3
- PT 655 Clinical Problem Solving I 2
- PT 665 Biomechanics/Kinesiology I 3
- PT 792 Neuroscience I 3

Spring
- PT 628 Theory and Practice II 4
- PT 635 Clinical Sciences II 3
- PT 641 Patient Evaluation II 3
- PT 656 Clinical Problem Solving II 2
- PT 666 Biomechanics/Kinesiology II 2
- PT 658 Exercise Physiology 2
- PT 793 Neuroscience II 3

Year 2

Summer
- PT 669 Clinical Internship I 4

Fall
- PT 810 Scientific Inquiry I 3
- PT 826 Theory and Practice III 4
- PT 836 Clinical Sciences III 3
- PT 842 Patient Evaluation III 3
- PT 857 Clinical Problem Solving III 2
Center for Brain Research and Rehabilitation

The School of Physical Therapy has opened a 3,800 square foot research facility (http://hs.odu.edu/physther/resources/lab.shtml) with a large gait/movement assessment area, a room for virtual reality and rehabilitation studies, a multipurpose room for neurologic testing, and office space for faculty and graduate students. A primary research focus relates to neuromechanical basis of human movement under healthy and pathological conditions, with more clinically oriented studies on methods to improve gait and function in people with neurologic impairments. This research laboratory is designed for multidisciplinary use by faculty and graduate students in Physical Therapy, Human Movement Sciences, and Electrical and Computer Engineering. Collaboration among disciplines and with the Virginia Modeling and Simulation Center (VMASC) allows us to participate in exciting research projects exploring new technology in rehabilitation.
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