

TECHNICAL STANDARDS



Old Dominion University
Technical Standards for All Colleges
Fall 2021

TECHNICAL STANDARDS



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TECHNICAL STANDARDS

TECHNICAL STANDARDS



Counsel, and Student Support Services. In addition, each dean and department chair has a copy.

TECHNICAL STANDARDS



COLLEGE OF ARTS AND LETTERS

TECHNICAL STANDARDS



INTRODUCTION

Old Dominion University is committed to admitting qualified students without regard to race, color, religion, sex (including pregnancy), gender identity, national origin, age, veteran status, disability, political affiliation, sexual orientation or genetic information.

Candidates for a degree in the College of Arts and Letters must be able to meet the minimum standards for their program in order to complete their degree requirements successfully.

Any evidence of a possible inability to meet the safety and technical standards may be cause for further evaluation at our discretion. Such evidence may become available through the application materials, letters of recommendation, interview, or visual observations. Further evaluation may entail an interview or a physical examination, or both, by physicians or other practitioners (e.g., nurse practitioner, psychologist, etc.) of our choice.

TECHNICAL STANDARDS

African American and African Studies Programs

TECHNICAL STANDARDS

Art Department

Students admitted to the undergraduate and graduate programs in studio art and art history can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she is unable to fulfill course requirements or does not possess one or more of the following skills is encouraged to consult with their instructor(s), department advisor, academic counselor, and The Office of Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and/or personal assistance. Color blindness can be accommodated.

1. Understand and manipulate abstract concepts embodied in works of arts through critical and analytical thinking
2. Participate in classroom discussions
3. Communicate effectively and organize thoughts to prepare written documents that are correct in in that areri7.8

TECHNICAL STANDARDS

Asian Studies

Students admitted to the undergraduate program of Asian Studies can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she is unable to fulfill course requirements or does not possess one or more of the following skills is encouraged to consult with their instructor(s), department advisor, academic counselor, and The Office of Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and/or personal assistance.

1. Understand and apply abstract concepts, which are communicated through print text, electronic media, and lecture
2. Comprehend and assimilate large amounts of material communicated through lectures, discussions, rea2 0 NBo Tc 0 Tw 1Tc 0.003 Tw -33 late large amounomod2. latte1h t

TECHNICAL STANDARDS

Communication and Theatre Arts Department

Students admitted to the communication and theatre arts programs can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she is unable to fulfill course requirements or does not possess one or more of the following skills is encouraged to consult with their instructor(s), department advisor, academic counselor, and The Office of Academic

TECHNICAL STANDARDS



4. Use tools safely in the construction of theatrical scenery
5. Participate in extended rehearsals and performance activities
6. Students in Dance Education and Theatre Education must meet the requirements set forth in the technical standards prepared by the Department of Teaching & Learning in the College of Education.

TECHNICAL STANDARDS

English Department

Students admitted to the undergraduate and graduate English programs can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she is unable to fulfill course requirements or does not possess one or more of the following skills is encouraged to consult with their instructor(s), department advisor, academic counselor, and The Office of Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and/or personal assistance.

1. Understand and apply theoretical concepts, which are communicated through print text, electronic media, and lecture
2. Communicate effectively through written documents that

TECHNICAL STANDARDS



World Languages and Cultures

Students admitted to the foreign languages programs can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she is unable to fulfill course requirements or does not possess one or more of the following skills is encouraged to consult with their instructor(s), department advisor, academic counselor, and The Office of Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and/or personal assistance.

1. Communicate orally in the foreign language
2. Distinguish fine differences in phonetics and pronunciation
3. Assimilate and apply theoretical concepts communicated through conversation and readings in the foreign language
4. Communicate in writing and prepare written documents in the foreign language
5. French, German, and Spanish students in Teacher Education must meet the requirements set forth in the technical standards prepared by the Department of Teaching & Learning in the College of Education.

TECHNICAL STANDARDS

TECHNICAL STANDARDS

Interdisciplinary Studies

Students admitted to the interdisciplinary studies program can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she is unable to fulfill course requirements or does not possess one or more of the following skills is encouraged to consult with their instructor(s), department advisor, academic counselor, and The Office of Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and/or personal assistance.

TECHNICAL STANDARDS

Interdisciplinary Studies, Teacher Preparation Program

IDS-TP Early Childhood and Primary/Elementary Education Concentrations

Students admitted to a program leading to a Bachelor of Science in Interdisciplinary Studies, Teacher Preparation with a concentration in early childhood or elementary education, leading to licensure to teach PK-3 or PK-6 at the graduate level, can be expected to complete course requirements which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and the Office of Educational Accessibility concerning program requirements and possible accommodations. 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TECHNICAL STANDARDS

1. Communicate effectively

TECHNICAL STANDARDS

International Studies Department

Doctor of Philosophy –

TECHNICAL STANDARDS

Music Department

TECHNICAL STANDARDS

Political Science Program

Students admitted to the political science program can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she is unable to fulfill course requirements or does not possess one or more of the following skills is encouraged to consult with their instructor(s), department advisor, academic counselor, and The Office of Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and/or personal assistance.

1. Comprehend and assimilate large amounts of material communicated through lectures, discussions, readings, video or e88 (e24)Td(n)-4(r)4-00h((er)6(r)4r) as 20)41(2)16)-8

TECHNICAL STANDARDS



Sociology and Criminal Justice Department

Students admitted to the undergraduate and graduate sociology and criminal justice programs can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she is unable to fulfill course requirements or does not possess one or more of the following skills is encouraged to consult with their instructor(s), department advisor, academic counselor, and The Office of Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and/or personal assistance.

1. Assimilate large amounts of material communicated through lectures, discussions and readings
2. Comprehend and manipulate abstract concepts
3. Communicate effectively and organize thoughts to prepare written documents that are correct in style, grammar and mechanics
5. Function with computers to generate, acquire and analyze data
6. Achieve at least an intermediate level of competence in quantitative computer skills for graduate studies

TECHNICAL STANDARDS



Women's Studies Department

Students admitted to the women's studies department can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she is unable to fulfill course requirements or does not possess one or more of the following skills is encouraged to consult with their instructor(s), department advisor, academic counselor, and The Office of Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and/or personal assistance.

1. Comprehend and assimilate concepts and information communicated through lectures, discussions, readings and video programs
2. Understand abstract concepts and be able to apply them in specific situations
3. Organize conceptual and factual information and be able to communicate it effectively, verbally and in writing
4. Achieve at least an intermediate level of competence in computer skills
5. Conduct research using computers to generate, acquire and analyze data; and use the Internet as a research tool and source of information; use the Internet as a research tool and source of information.
6. Make oral presentations in class and at outside events, such as graduation and student conferences

TECHNICAL STANDARDS

ACCOMMODATIONS

It is the policy of Old Dominion University to provide reasonable accommodation to qualified students with a disability who can perform the essential functions as outlined in the above technical standards. Reasonable accommodation may be made in the form of administration of the evaluation where necessary; documented and requested in advance in accord with standards and requirements of the Americans with Disabilities Act Amendments (ADAAA). Whether or not a requested accommodation is reasonable will be determined on an individual basis. Determining a reivn

TECHNICAL STANDARDS



STROME COLLEGE OF BUSINESS

TECHNICAL STANDARDS

Accounting

Students admitted to the accounting program can be expected to complete course requirements that necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Comprehend large amounts of information communicated through lectures, discussions and readings.
2. Think logically and in depth, particularly in the depiction of the flow and recording of information and the preparation of financial statements.
3. Use empirical and statistical analyses and manipulate complex data.
4. Communicate effectively and organize concepts, information, and ideas to present them to others.

TECHNICAL STANDARDS

Department of Economics

TECHNICAL STANDARDS



Finance

Students admitted to the finance program can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Participate in class discussions and communicate effectively with different clientele.
2. Apply theoretical concepts and theories to practical financial problems such that creative and innovative solutions can be found and successfully executed.
3. Use and understand statistical techniques in a computer-based analytical package for simple and complex financial research analysis and interpretation.
4. Grasp and understand financial methods and analysis.
5. Comprehend or demonstrate a working knowledge of the interrelationships involved in a global economy and the effects on nations, organizations, and the individual.
6. Communicate effectively and in written documents that are correct in grammar, style and mechanics.
7. Function with computers to generate and acquire data.

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Department of Information Systems/Decision Sciences

Information Systems and E-Commerce

Students admitted to the various programs offered through Information Systems can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids.

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3. Think logically and in depth, particularly in the development of mathematical and computer models.
4. Communicate effectively and prepare written documents that are correct in grammar, style and mechanics.
5. Communicate complex analytical concepts in written documents.
6. Demonstrate competence in analytical thinking.

TECHNICAL STANDARDS

Marketing

TECHNICAL STANDARDS

School of Public Service

Students admitted to programs offered by the School of Public Service in the Strome College of Business can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Disability Services concerning any flexibility in program requirements and possible

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Strome College of Business Graduate Degree Programs

Students admitted to graduate degree programs offered by the Strome College of Business can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through

TECHNICAL STANDARDS

Strome College of Business Graduate Degree Programs

Students admitted to graduate degree programs offered by the Strome College of Business t can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

9. Understand and model the thought processes involved in profit/non-profit decision-making at the simple and complex levels.
10. Communicate effectively in written documents that are correct in grammar, style and mechanics.
11. Participate in class discussions and communicate effectively with different clientele.
12. Apply theoretical concepts and theories to practical business/public sector problems such that creative and innovative solutions can be found and

TECHNICAL STANDARDS



Department of Communication Disorders and Special Education
Masters of Science in Speech-Language Pathology
Communication Sciences and Disorders (graduate program)

Students admitted to the graduate speech-language pathology program are expected to complete course and clinical requirements which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills or attributes should seek assistance from an academic counselor or faculty advisor and the Office of Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance. Several of these standards have been adapted from the Essential Functions checklist of the Council of Academic Programs in Communication Sciences and Disorders.

1. Communication and Cognition:
 - a. Communicate proficiently in oral and written English language with correct grammar, style and mechanics (e.g., spelling and pronunciation).
 - b. Read and write in order to meet curricular and clinical demands.
 - c. Perceive and demonstrate phonological patterns of English and perceive and analyze differences from Standard English.
 - d. Perceive and demonstrate appropriate nonverbal communication for culture and context.
 - e. Modify communication style to meet the communication needs of clients, families, and other professionals.
 - f. Comprehend, retain, integrate, synthesize, infer, evaluate and apply written and verbal information sufficient to meet curricular and clinical demands.
 - g. Solve problems, reason, and make sound clinical judgments in client assessment, diagnostic and therapeutic planning and implementation.

2. Motor skills:
 - a. Sustain physical activity level necessary in classroom and clinical activities (e.g., ambulate to access clients; lift and manipulate clinical instruments, tests and materials).
 - b. Respond quickly to provide a safe environment for clients in an emergency situation (e.g., fire, choking).
 - c. Access transportation to clinical and academic placements.
 - d. Participate in classroom and clinical activities for the defined workday (e.g., full 8-10 hour workday).
 - e. Manipulate patient-utilized equipment (e.g., computer systems, hearing aids) in a safe manner.

TECHNICAL STANDARDS

Department of Communication Disorders and Special Education

TECHNICAL STANDARDS

Department of Counseling and Human Services

TECHNICAL STANDARDS

Department of Teaching & Learning

Students admitted to a program leading to a Bachelor of Science in Education, Bachelor of Science in one or more of the related content areas that has an approved teacher education program, or a Master of Science

TECHNICAL STANDARDS



Department of Human Movement Sciences Health & Physical Education Program

Students admitted to the undergraduate program in Health & Physical Education (HPE) can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and the Office of Educational Accessibility concerning program requirements and possible accommodation through technical aids an assistance.

1. Possess mental, emotional, and physical capabilities and judgements to accomplish satisfactory performance in the classroom environment and within practical settings.
2. Demonstrate written, oral, and technological communication skills to express ideas, foster understanding, and effectively interact with others.
3. Acquire and apply theoretical and practical knowledge in core content areas in accordance with program requirements.
4. Meet professional standards and competencies in practicum/internship placements in physical education/activity settings.
5. Display mental and emotional stability and professional behavior to interact with other individuals and/or apparatus in a respectful and responsible manner.
6. Demonstrate professional dispositions and interpersonal skills necessary to establish and maintain proper relationships with constituents (athletes, students, parents, school administrators, and faculty) within a wide range of athletic/academic contexts.
7. Demonstrate equitable professional behavior when working with individuals from diverse (gender, racial, ethnic, disability/ability, sexual orientation, age) groups.
8. Demonstrate compassion, sensitivity, concern, and care for others.
9. Engage in physical activities and demonstrate the ability to explain and teach movement-related skills.
10. Meet the technical standards established by the Department of Teaching & Learning, and meet the requirements set by the Office of Clinical Experiences.

TECHNICAL STANDARDS

11. Meet the professional ethics standards communicated by the Society of Health and Physical Educators (SHAPE America) and the Virginia Department of Education.

For graduate students in HPE, they will need to

1. Pass the entrance and professional exams and background checks needed for professional certificate and/or licensure.
2. Possess mental, emotional, and physical capabilities and judgment to teach/coach in the classroom, gymnasium environment, and within practice settings.
3. Acquire and apply theoretical and practical knowledge in HPE, maintain a minimum of 3.0 grade point average, and pass the necessary exams in accordance with the latest program requirements.
4. Show high competence to use a variety of techniques and technologies to track and assess student

TECHNICAL STANDARDS

Department of Human Movement Sciences

Park, Recreation and Tourism Studies Program

Students admitted to undergraduate and graduate programs in Park, Recreation & Tourism Studies (PRTS) can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who does not possess one or more of the following should seek assistance from an academic counselor or faculty advisor and the Office of Educational Accessibility concerning pro n2(i)-3.3 (n)-0.7 (g p)-0.7 iBDC 5.04 -0 0 5.04 66.96 645.84 Tm()TjEMC / (o)-.6 (t)-9.6 (e)4. o (n)-0.7M1 offic.6 (o)-6.6 (n)2.3 (s)-1.9 (ad)2.3 (e).9 (r) .3 (s)-1w (f)-3 (ilit)7.9 (c)-1h3 (d)2..6 (n)2.6 (g)2 m2 (w)-6aj3 (810.6 (o)-6r.3

TECHNICAL STANDARDS

TECHNICAL STANDARDS

STEM Education and Professional Studies Department
Marketing Education, Fashion, Training Specialist and
Graduate Occupational and Technical Education

Students admitted to the program leading to a Bachelor of Science in Occupational and Technical Studies (marketing education, fashion, and training specialist majors), or the Master of Science in Occupational and Technical Studies with a major in mid6 (O)-2 (c)-1.9(n)2.3aae and seconcry career and technical education and business and industry training can be expected to complete course requirements which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and the Office of Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Assimilate material communicated through lectures, discussions, and readings.
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TECHNICAL STANDARDS

STEM Education and Professional Studies Department
Technology Education and Industrial
Technology Programs

Students admitted to the Bachelor of Science in Occupational and Technical Studies with majors in industrial technology or technology education can be expected to complete course requirements, which necessitate

TECHNICAL STANDARDS

TECHNICAL STANDARDS



COLLEGE OF ENGINEERING AND TECHNOLOGY

TECHNICAL STANDARDS

Civil and Environmental Engineering

Students admitted to the undergraduate and graduate civil and environmental engineering programs can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Synthesize theoretical concepts, which are often communicated through mathematical equations, texts, diagrams and graphs, and apply such concepts in solving hypothetical and practical problems.
2. Assemble, perform tests on and evaluate results from laboratory equipment including equipment of a mechanical, electrical or optical nature.
3. Operate test equipment used in civil and environmental engineering laboratories and be able to use computers and computer programs to organize, analyze, tabulate, and graphically represent data.
4. Understand the hazards of working with chemicals and also the proper handling, exposure, and disposal of such. Understand the hazards of mechanical equipment.

TECHNICAL STANDARDS

Civil Engineering Technology Program

Students admitted to the construction and civil engineering technology program must complete course requirements that may necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

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TECHNICAL STANDARDS

Electrical and

TECHNICAL STANDARDS

Electrical Engineering Technology Program

Students admitted to the electrical engineering technology program can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Assimilate and apply theoretical concepts communicated through mathematical equations, circuit diagrams, and graphs.
2. Assemble, perform tests on, and evaluate prototype circuits

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TECHNICAL STANDARDS

Department of Engineering Management and Systems Engineering

Students admitted to engineering management or systems engineering programs can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Synthesize theoretical concepts, which are often communicated through mathematical equations, texts, diagrams and graphs, and apply such concepts in solving hypothetical and practical problems.
2. Communicate effectively by:
 - a. Demonstrating the understanding of spoken and written language.
 - b. Demonstrating the use of spoken and written language.
 - c. Organizing ideas in spoken language and written documents that use formal grammar, style, and mechanics.
3. Orally communicate complex ideas in a live or distance learning environment.
4. Use a computer to communicate with faculty and other students as well as to use software related to engineering management and systems engineering applications to include programsita inc3/()Tj/T5 (a

TECHNICAL STANDARDS

Modeling Simulation & Visualization Engineering

Students admitted to the undergraduate and graduate modeling and simulation engineering programs can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Assimilate theoretical concepts, which are often communicated through mathematical equations, texts, diagrams and graphs, and apply such concepts in solving hypothetical and practical problems.
2. Assemble, perform-0.7 (o38 0 Td(p)16.1 97m 0 Td[Thn)-0.(E3-1.261 3.2 (l)1r6-4.0)l1.261 3.2 ((a)-3.3, (n)-0.7 (

TECHNICAL STANDARDS



COLLEGE OF HEALTH SCIENCES

TECHNICAL STANDARDS

Environmental Health Program

Students admitted to the Environmental Health program can be expected to complete courses, which require the physical and mental abilities outlined below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor, faculty advisor, and Office of Educational Accessibility. The student will be advised on flexibility in program requirements and possible accommodation through technical aids and assistance. The student will be expected to:

1. Assimilate technical and non-technical knowledge through lectures, discussions, and readings, as well as laboratory and internship experiences. In order to perform the internship, the student must have the ability to communicate effectively to groups, and to apply knowledge acquired in the program.
2. Comprehend and use basic mathematical skills in order to calculate, for example, areas, volumes, ratios, proportions, distances, dilutions, and disinfectant and pesticide dosages.
3. Comprehend and use statistical skills in order to perform epidemiological investigations, such as, defining the extent of infectious and non-infectious illness, incidence and prevalence, and preparing various types of reports.
4. Read tables, charts, graphs, blueprints, dials and gauges, and discriminate colors for reading colorimetric instruments and papers, as well as for distinguishing soil colors.
5. Possess sufficient tactile function in order to differentiate soil textures and spillage slimes.
6. Have the olfactory capability to detect trace changes in, for example, food odors or gases, and other chemicals.
7. Have sufficient manual dexterity; be able to manipulate monitoring instruments, dials, syringes, droppers, calibrating screwdrivers, and other small tools.
8. Assisted or unassisted, be able to move over rough terrain carrying augers, tools and various instruments
9. Detect sound changes in order to use monitoring instruments, such as radiation, metal and current detectors.
10. Communicate effectively and organize thoughts to prepare written documents that are correct in style, grammar, and mechanics.
11. Comprehend applied and abstract concepts.

TECHNICAL STANDARDS

MS Program in Community/Environmental Health

Students admitted to the graduate program in community and environmental health are expected to complete all program requirements. Any student who thinks he or she does not possess one or more of the following skills should seek assistance from the program director or faculty advisor and contact the Educational Accessibility office concerning any needed flexibility in program requirements and possible accommodation through technical aids and assistance. Students are expected to:

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TECHNICAL STANDARDS

Students in the COHS Undergraduate BSHS Program

Since many of our students are transfer students from the Virginia Community College System, it is important that their general education requirements are met. Completion of the required general education requirements enhance the quality of the program. The following table lists the required general education requirements for the BSHS program.

TECHNICAL STANDARDS

Health Services Research Doctoral Program

Students admitted to the Health Services Research program can be expected to complete all program requirements. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor, faculty advisor, and Office of Educational Accessibility. The student will be advised on flexibility in program requirements and possible accommodation through technical aids and assistance. The student will be expected to:

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TECHNICAL STANDARDS

School of Dental Hygiene Bachelor of Science in Dental Hygiene Entry-level Program

Students admitted to the dental hygiene program are expected to complete course requirements, which necessitate attendance to all course modalities including online and/or in person didactic courses, in person laboratory and clinic and off campus community rotations as well as the physical and mental abilities listed below. Deficiencies in knowledge, skill, judgment, integrity, ethical behavior, character, professional attitude or demeanor which may jeopardize patient care and/or safety may be grounds for course failure and dismissal from the Program. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Office of Educational Accessibility concerning possible accommodations through technical aids and assistance:

TECHNICAL STANDARDS

Kinesiology & Rehabilitation Doctoral Program

Students admitted to the Kinesiology & Rehabilitation Ph.D. program can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Comprehend theoretical concepts, assimilate large amounts of material communicated through lectures, discussions, and readings, and apply concepts to actual problems.
2. Comprehend and apply basic mathematical skills (e.g., ratio and proportion concepts, algebraic equations, and basic statistical equations).
3. Observe and distinguish characteristics of human movement.
4. Read, distinguish and comprehend data presented in tables and figures in gray scale and colors.
5. Communicate orally in a clear and grammatically correct manner.
6. Communicate effectively in written documents that are correct in grammar, style and mechanics.
7. Safely operate mechanical and electronic instrumentation employed in recording human movement.
8. Operate computers, including the use of pre-installed statistical, data collection, data analysis, word processing, graphical and presentation software.
9. Think logically and apply reason to reach a conclusion, based on theoretical concepts and

TECHNICAL STANDARDS

For this reason, any applicant or student who seeks accommodations prior to or immediately after enrolling in the nursing programs must also request an assessment of the types of reasonable accommodations needed for the clinical component of the program and work with the Office of Educational Accessibility. Old Dominion University School of Nursing will make appropriate academic adjustments to facilitate enrollment and participation of qualified individuals with temporary or permanent disabilities.

An individual must be able to independently, with or without reasonable accommodation, meet the following technical standards of general abilities and those specifically related to (1) observation; (2) communication; (3) senses; (4) motor; (5) intellectual-conceptual, integrated and quantitative abilities; and (6) essential behavioral, interpersonal and social attributes. Individuals seeking admission to graduate nursing programs should be able to perform in a reasonably independent manner **without a trained intermediary**. The use of a trained intermediary means that a candidate's judgment or performance must be mediated by someone else's power of selection, observation, or performance. Individuals unable to meet these technical standards, with or without reasonable accommodation, will not be able to complete the program and are counseled to pursue alternate careers.

Observation Competencies

The Technical Standards include the

TECHNICAL STANDARDS

Examples of communication competencies include, without limitation, the ability to:

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- x Communicate clearly and intelligibly in English (or to a patient language interpreter if the patient and/or family members/significant others do

TECHNICAL STANDARDS

- x Perceive pain, pressure, temperature, position, vibration, and movement that are important to the ability to gather significant information needed to effectively evaluate patients.
- x Utilize visual skills necessary to detect signs and symptoms, body language of patients, color of wounds, drainage and possible infections as well as colors associated with various health care alerting systems.
- x Interpret the written word and read characters and identify colors on the computer screen accurately.
- x Recognize through touch differences in size and shapes, surface characteristics, as well as palpable changes in various organs and tissues.
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TECHNICAL STANDARDS

- x Navigate patients' rooms and or homes, work spaces, and treatment areas with appropriate precision and speed to carry out the nursing process during the delivery of general nursing care or, in emergency situations, without hindering the ability of other members of the health care team to provide prompt treatment and care topatients.
- x Possess

TECHNICAL STANDARDS

- x Demonstrate the ability to incorporate new information from peers, faculty, and the nursing and health care literature to formulate sound judgment in patient assessment, intervention, evaluation, teaching, and setting short and long term goals.

Retrieve and critically appraise patient-related research to determine the best available research evidence (quantitative and qualitative) to use in a patient's nursing plan of care to promote positive patient outcomes.

Accurately follow course syllabi, assignment directions, patient protocols, and any action plan(s) developed by deans, faculty, administrators, or health care agency staff.

- x Precisely measure, calculate, reason, analyze and synthesize medication/solution dosages and any other essential information specific to patient care in a timely manner.
- x The graduate nursing student must be able to, with or without the use of assistive devices, but without reliance on another person, interpret x-7.304 0oitaler27 TD(w)-3.4 (it)-2.9 (h)2.2 (o2.003 0.7 (d)-0.8 (e

TECHNICAL STANDARDS

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TECHNICAL STANDARDS

Medical Technology/Medical Laboratory Science Program

TECHNICAL STANDARDS



Cytotechnology

Technical standards represent the essential non-academic requirements of the program that students must master to successfully participate in the program and become employable. The following is a list of the technical abilities and skills applicants for admission must possess:

1. Manual Dexterity: Ability to use hand(s) or prosthetic devices with coordination.
2. Fine Motor: Ability to manipulate small objects with fingertips or adaptive devices.
3. Vision: Ability to distinguish red, yellow, and blue colors; distinguish clear from cloudy; and distinguish objects through a microscope.
4. Concentration: Ability to sit and concentrate visually for prolonged periods.
5. Writing: Ability to communicate effectively in the written form in English.
6. Reading: Ability to read, understand, and follow directions printed in English.

TECHNICAL STANDARDS

Nuclear Medicine Technology Program

Nuclear medicine technology involves the provision of direct care for individuals and is characterized by the application of verified knowledge and skillful performance in the medical imaging domain. You must meet the following technical standards to be admitted into the clinical phase of the NMED program.

An NMED student must function in a broad variety of clinical situations and therefore, students admitted to the program must meet the following abilities, expectations and technical skills. Students must be able to tolerate physical (standing for long periods of time, moving and lifting patients, etc.) and emotional stressors (occasional high workload/multitasking, emergency orders, etc.) while functioning effectively and compassionately with the ill and injured.

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TECHNICAL STANDARDS

School of Physical Therapy and Athletic Training Athletic Training Program

Applicants/Students admitted to the MSAT program must possess aptitudes, abilities, and skills in the following five areas:

1. Observation
 - a. Students must be able to use vision, hearing, and somatic sensations in both the classroom and in patient care. A student must be able to observe a patient accurately at a distance and close at hand, noting nonverbal as well as verbal signals.
 - b. Specific vision-related requirements include, but are not limited to the following abilities

TECHNICAL STANDARDS

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TECHNICAL STANDARDS



- d. Students must demonstrate ethical behavior, both in the classroom and during their clinical experience. ([National Athletic Trainers' Association Code of Ethics](#))

ACCOMMODATIONS

It is the policy of Old Dominion University to provide reasonable accommodation to qualified students with a disability who can perform the essential functions as outlined in the above technical standards. Reasonable accommodation may be made in the form of administration of the evaluation where necessary; documented and requested in advance in accord with standards and requirements of the Americans with Disabilities Act Amendments (ADAAA). Whether or not a request accommodation is reasonable will be determined on an individual basis. Determining what is a reasonable accommodation is an interactive process which the student/applicant should initiate with the Office of Educational Accessibility (<https://www.odu.edu/educationalaccessibility>), in collaboration with the Office of Institutional Equity and Diversity and the college or department of the Athletic Training Program.

TECHNICAL STANDARDS

School of Physical Therapy

These technical standards describe essential functions needed to complete the educational program and perform the job of a physical therapist. An individual not possessing one or more of these capabilities will not be admitted to the program unless reasonable accommodations can be made that allow the person to perform all required tasks within a standard period of time used in the profession.

Deficiencies in knowledge, skill, judgment, integrity, character, professional attitude or demeanor which may jeopardize patient care and/or safety may be grounds for course/internship failure and possible dismissal from the Program.

Applicants/Students admitted to the DPT program must possess aptitudes, abilities, and skills in the following five areas:

1. Observation

Students must be able to observe and identify anatomic structures to distinguish different tissues in a limited time period. A student must be able to observe a patient accurately at a distance and close at hand, noting nonverbal as well as verbal signals. Specific vision-related requirements include, but are not limited to the following abilities: skin integrity; visualizing and discriminating findings on radiographs and other medical imaging tools; reading written and illustrated material; observing demonstrations in the classroom, including multimedia presentations; observing and differentiating changes in body movement; observing anatomic structures; discriminating numbers and patterns associated with diagnostic instruments and tests, such as sphygmomanometers and electrocardiograms, and using instruments competently, such as stethoscope, monofilaments, etc.

2. Communication

Students must be able to relate effectively and sensitively with peers, patients/clients and faculty. A student must be able to communicate clearly with and observe patients in order to elicit information, describe accurately changes in mood, activity and posture, and perceive verbal as well as nonverbal communications. Communication includes not only speech but also reading and writing. Physical Therapy education presents exceptional challenges in the volume and breadth of required reading and the necessity to impart information to others. Students must be able to communicate quickly, effectively and efficiently in oral and written English with all members of the health care team.

TECHNICAL STANDARDS

Graduate Program in Public Health

1. Observation Skills Technical Standards

- a. Demonstrate sufficient attention and accuracy in observation skills (visual, auditory, and tactile) in the lecture hall and/or online settings. Indicators include, but are not limited to, accurate visualization and discrimination of text, numbers, patterns, graphic illustrations, and other imaging texts.

2. Communication Skills Technical Standards

- a. Students must be able to communicate with faculty, colleagues and the target audience with whom they work.
- b. Indicators include, but are not limited to, these examples:
 - i. Clear, efficient, and intelligible articulation of verbal language
 - ii. Legible, efficient, and intelligible written English language.
 - iii. Accurate and efficient English language reading skills.
 - iv. Accurate and efficient expressive and receptive communication skills.
 - v. Ability to accurately follow oral and written directions.

3. Critical Reasoning Skills Technical Standards

- a. Abilities include measurement, calculation, reasoning, data analysis and synthesis.
- b. Students must have the intellectual capability to improve their knowledge based upon standard textbooks, conferences, lectures, current scholarly literature and journals.
- c. Demonstrated problem-solving and critical thinking skills are necessary.
- d. Demonstrate ability to acquire, retain and apprat (ab)2.3 (ilit)-2 ()Tj-0.004 T/p0 T0 T0Tc 0.003.0d()Tj-0.00

TECHNICAL STANDARDS

- a. Students must possess the emotional health required for adequate utilization of intellectual abilities, the exercise of good judgment and evidence of mature and sensitive relationships with faculty, colleagues and the public.
- b. Evidence of integrity, ethical standards and concern for others, as well as appropriate appearance and hygiene, interpersonal skills, interest and motivation are all personal qualities that will be assessed during the admission process and throughout the educational progression through the curriculum.
- c. Indicators include, but are not limited to, these examples:
 - i. Demonstrate impartial motives, attitudes and values in roles, functions and

TECHNICAL STANDARDS

ACCOMMODATIONS

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TECHNICAL STANDARDS

TECHNICAL STANDARDS



Department of Biological Sciences
B.S. and M.S. Programs in Biology
Ph.D. in Biomedical Sciences

Students admitted to the B.S. program in biology, the M.S. program in biology or the Ph.D. program in biomedical sciences can be expected to complete course requirements, which necessitate the physical and mental abilities, listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Comprehend and apply basic mathematical skills (e.g., ratio and proportion concepts, algebraic equations, and basic statistical equations).
2. Communicate effectively and in written documents that are correct in grammar, style and mechanics.
3. Observe biological behavior and other phenomena with and without the aid of a microscope.
4. Identify characteristic odors of organisms and chemicals used in biological experimentation and field analysis.
5. Distinguish tonal differences and changes used in biological experimentation and field analysis.
6. Detect texture and topographic differences used in biological experimentation and field analysis.
7. Use equipment to perform biological experimentation (e.g., manipulating syringes or pipettors, setting field traps, microtoming, etc.).
8. Maneuver in laboratories to utilize equipment.
9. Develop and perform extensive biological experiments.

TECHNICAL STANDARDS



Department of Biological Sciences Ecological Sciences Program

Students admitted to the ecological sciences program can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Understand and apply theoretical concepts in biology, ecology, and the mathematical sciences.
2. Read instruments and examine specimens.
3. Operate instruments, such as pH meters, oxygen meters, calorimeters, colorimeters, grinding mills.
4. Maneuver in and traverse difficult terrain in the field.
5. Communicate effectively and in written documents that are correct in grammar, style and mechanics.

TECHNICAL STANDARDS

Department of Chemistry and Biochemistry
Biochemistry Program

TECHNICAL STANDARDS

Department of Chemistry and Biochemistry
Chemistry Program – Teaching

Students admitted to the undergraduate chemistry program can be expected to complete course requirements, which necessitate the physical and mental abilities listed below.

TECHNICAL STANDARDS

Department of Chemistry and Biochemistry Chemistry Program

Students admitted to the undergraduate chemistry program can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skill should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Apply theoretical concepts to practical problems using techniques in the development of explanations which fit observed experimental data.
2. Operate complex instrumentation used in chemical studies.
3. Communicate effectively in written documents that include data and analysis.

TECHNICAL STANDARDS

TECHNICAL STANDARDS

Computer Science

TECHNICAL STANDARDS



Mathematics and Statistics Programs

Students admitted to undergraduate and graduate mathematics and statistics programs are expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Comprehend theoretical concepts and apply them to hypothetical and actual problems.
2. Communicate effectively in written documents that are correct in grammar, fluent in style, and clear in mathematical and statistical models, mechanics and layout.
3. Operate personal or classroom styled computers safely and subject to university regulations, including the use of software pre-installed or updated for mathematical and statistical applications.
4. Comprehend and apply basic mathematical skills (e.g., ratio and proportion concepts, algebraic equations, and basic statistical equation).
5. Assimilate and communicate mathematical and statistical concepts through oral communication.
6. Be able to follow and formulate complex arguments involving abstract concepts in mathematics and statistics.
7. Apply the rules of logic and mathematical and statistical proofs for empirical evidence.

TECHNICAL STANDARDS



Department of Ocean, Earth and Atmospheric Sciences

Students admitted to the OEAS program can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinkshe/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Comprehend and apply theoretical concepts and relationships to complete projects and assignments.
2. Communicate effectively and in written documents that are correct in grammar, style and mechanics.
3. Organize diagrams and distinguish color.
4. Operate machinery and sophisticated instrumentation and use potentially dangerous chemicals without injury to self or others.
5. Conduct field investigations along beaches, coastlines and/or on-board underway research vessels.
6. Conduct independent field investigations.
7. Participate in cruises lasting several days on board research vessels at sea and/or on field trips to outcrop exposures.

TECHNICAL STANDARDS



Physics Department

Students admitted to the undergraduate and graduate physics programs can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Assimilate theoretical concepts, using mathematical equations, texts, diagrams, and graphs to solve hypothetical and practical problems.
2. Assemble laboratory equipment, perform laboratory exercises, observe and evaluate results from laboratory experiments. Equipments may be of a mechanical, electrical or optical nature.
3. Operate standard test equipment used in physics laboratories and use computers. Be able to work with mathematical and standard software and possibly programming when appropriate, and assimilate data.
4. Operate electrical equipment which may have potentially lethal voltages and currents without injury to self or others.
5. Operate complex instrumentation used in introductory and advanced physics laboratories.
6. Distinguish loudness and tonal differences in laboratory experiments.
7. Communicate effectively in written documents. All written work is expected to demonstrate proper use of grammar, style and mechanics.
8. Assimilate and communicate physical concepts through oral communication.
9. Be able to follow and formulate complex arguments involving abstract concepts.

TECHNICAL STANDARDS



10. Apply the rules of logic, mathematical proofs and proper accounting for empirical evidence.

TECHNICAL STANDARDS

Psychology Department

Students admitted to the undergraduate and graduate psychology programs can be expected to complete course requirements, which necessitate the physical and mental abilities listed below. Any student who thinks he/she does not possess one or more of the following skills should seek assistance from an academic counselor or faculty advisor and Educational Accessibility concerning any flexibility in program requirements and possible accommodation through technical aids and assistance.

1. Comprehend theoretical concepts, assimilate large amounts of material communicated through lectures, discussions, and readings, and apply concepts to actual problems.
2. Comprehend and apply basic mathematical skills (e.g., ratio and proportion concepts, algebraic equations, and basic statistical equations).
3. Communicate orally in a clear and grammatically correct manner.
4. Communicate effectively in written documents that are correct in grammar, style and mechanics.
5. Operate computers, including the use of pre-installed statistical application, word processing, and presentation software.
6. Complete research studies and make oral presentations.
7. Use empirical and statistical analyses and manipulate complex data.
8. Think logically and