



TENNESSEE DEPARTMENT OF

EDUCATION

FIRST TO THE TOP

Behavioral and Community Health

Primary Career Cluster:	Health Science
Consultant:	Sheila Carlton, (615) 532-2839, Sheila.Carlton@tn.gov
Course Code(s):	TBD
Prerequisite(s):	Emergency Preparedness
Credit:	1
Grade Level:	11
Graduation Requirements:	This course satisfies one of three credits required for an elective focus when taken in conjunction with other Health Science courses.
Programs of Study and Sequence:	This is the second course in the <i>Public Health</i> program of study. Health Science Education may be used as an optional foundational course. In that case, this will be the third course in the program of study.
Necessary Equipment:	None
Aligned Student Organization(s):	HOSA: http://www.tennesseehosa.org Amanda Hodges, (615) 532-6270, Amanda.Hodges@tn.gov
Coordinating Work-Based Learning:	If a teacher has completed work-based learning training, he or she can offer student appropriate placements in Job Shadowing . This course can serve as a prerequisite for Clinical Internship . For more information, <u>please</u> visit http://tennesseewww.tn.gov/education/cte/wb/ .
Available Student Industry Certifications:	None
Dual Credit or Dual Enrollment Opportunities:	There are no known-statewide dual credit/dual enrollment opportunities for this course. If interested in developing/establishing a local opportunity , reach out to a-your local postsecondary institution to establish an articulation agreement .
Teacher Endorsement(s):	577
Required Teacher Certifications/Training:	None
Teacher Resources:	http://www.tn.gov/education/cte/HealthScience.shtml

Course Description

Behavioral and Community Health is an applied course for students interested in developing a rich understanding of the ways that communities experience and treat health-related issues. A student proficient in *Behavioral and Community Health* can use research and data to understand the health and

wellness of his/her community, state, region, and nation. Upon completion of this course, students will be able to differentiate between health and wellness; relate that knowledge to social epidemiology and determinants of health; draw key connections between behavioral health issues and community health issues; and identify professionals who can provide care. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects.*

Program of Study Application

This is the second course in the *Public Health* program of study and builds knowledge and skills necessary for success in the capstone course, *Global Health and Epidemiology*. *Health Science Education* may be used as an optional foundational course in the program of study to better prepare students for success in later courses. For more information on the benefits and requirements of implementing a program of study in full, please see the program of study description documents found on the Health Science website at <http://www.tn.gov/education/cte/HealthScience.shtml>.

Course Standards

Overview of Healthcare History, Systems, and Legislation

- 1) Gather relevant information from multiple sources (in both print and digital formats) concerning the history of, and relationships between, community health, disease outbreaks and psychosocial disorders in order to understand how community health has formed the basis of the modern healthcare system. Research notable historical figures, time periods, and/or practices to develop a visual, oral, and/or written presentation that cites specific textual evidence to support analysis. (TN CCSS Reading 1, 5, 7; TN CCSS Writing 4, 6, 8, 9)
- 2) Differentiate between health, healthcare, and healthcare systems/organizations related to community and mental health, and explain their evolution in modern society. Use information from governmental agencies, such as the Center for Disease Control and Prevention (CDC), to identify health disparities (for example, rates of childhood obesity in different regions) in the United States population. Physically locate care-providing organizations and agencies that can be utilized to address identified disparities. (TN CCSS Reading 1; TN CCSS Writing 7)
- 3) Define epidemiology and identify social and community health issues prevalent in a specific community. Research social determinants impacting a specific health issue, including but not limited to age, behavior, race/ethnicity, environment, geography, social status, income, and other factors that contribute to diseases and disorders. Summarize findings in a graphic illustration or informational artifact in order to participate in a discussion comparing and contrasting health of communities with different demographic data. (TN CCSS Reading 1, 7; TN CCSS Writing 8)
- 4) Research and summarize major state and federal legislation related to behavioral and community health using both primary sources (such as laws) and secondary sources (such as media reports). Construct an argumentative essay describing the effects of these laws on the provision of healthcare in Tennessee and the implications for at-risk populations. In the essay, compare and contrast findings presented in media about legislation, citing specific textual evidence to support a claim and assess extent to which reasoning and evidence may support or refute identified counterclaim(s). (TN CCSS Reading 1, 2, 8, 9; TN CCSS Writing 1, 8, 9)



Careers

- 5) Research careers within the public health and mental health fields and document educational requirements as well as state and national guidelines governing practicing professionals (such as licensing, certifications, training, compliance). Identify potential training programs, schools, and examinations appropriate to obtain required credentials for a specific occupation. (TN CCSS Writing 2, 7, 8, 9)
- 6) Research and summarize the range of skills, competencies, and professional traits required for careers in the public health and mental health fields. Compare findings to current individual strengths and identify opportunities for personal development. Translate real-time and projected labor market data into narratives to identify local and national employment opportunities and determine areas of growth within public health and mental health fields. (TN CCSS Reading 2, 7; TN CCSS Writing 4, 6, 8, 9)

Legal and Ethical Issues

- 7) Compare and contrast the specific laws and ethical issues that impact relationships among patients/clients and healthcare professionals (for example, patient confidentiality). Citing specific textual evidence to support reasoning, participate in a verbal or written debate as related to behavioral and community health by developing claim(s) and counterclaim(s). (TN CCSS Reading 1, 9; TN CCSS Writing 1, 4, 8, 9)
- 8) Research the Americans with Disabilities Act of 1990 (ADA), the American Hospital Association's "Patient Bill of Rights," the Omnibus Budget Reconciliation Act of 1990 (OBRA), and the Patient Self-Determination Act of 1990 (PSDA). Explain to a patient/client or classmate the rights of a patient or client, depending on differences in age, mental status, and competency. Cite the above documents in clear, coherent language to describe the relationships among concepts of patient rights. (TN CCSS Reading 2, 5)
- 9) Summarize the Health Insurance Portability and Accountability Act (HIPAA) within the context of mental health and community health treatment, and relate key provisions of the act to patient rights. Develop a brochure or factsheet, which can be shared with minors, adults, and non-English speaking individuals, that defines key words and phrases, illustrates key points, and cites specific textual evidence from the act. (TN CCSS Reading 1, 2, 4, 7; TN CCSS Writing 6)
- 10) Construct an argumentative essay contrasting patient/client rights with a community's right to know about dangerous mental health clients or persons with communicable diseases, citing evidence from legislation and news articles to support claim(s) and counterclaim(s). (TN CCSS Reading 1, 8, 9; TN CCSS Writing 1)
- 11) Research sections of the Patient Protection and Affordable Care Act of 2010 (ACA) related to community health and preventive medicine, synthesizing a variety of professional, journalistic, and medical perspectives on the ramifications of the act for individuals and communities. Select



one of the preventive guidelines listed in the prevention/wellness section of the law and develop a plan to implement it for a given community. For example, to increase access to fresh produce, a plan may include a gap analysis, list of stakeholders, budget, and timeline for activities using domain-specific language. (TN CCSS Reading 1, 2, 4; Writing 2, 8, 9)

Social Perception and Prevalence of Diseases and Disorders

- 12) Assess the costs associated with providing long-term care to patients/clients with mental or chronic conditions. Compare and contrast these costs against alternative treatment methods such as institutionalization or preventative care. Incorporate evidence from the Long-Term Care section of the Patient Protection and Affordable Care Act of 2010 (ACA), The Mental Health Parity and Addiction Equity Act of 2008, TennCare guidelines, and rates quoted by competing insurance companies. (TN CCSS Reading 9)
- 13) Evaluate health data from a range of sources (such as the World Health Organization, Centers for Disease Control and Prevention) to determine the social perception and prevalence of chronic, mental, and environmental health diseases and disorders. Research should incorporate relevant health indicators, clinical trials, risk factors, and clinical perspectives using domain-specific language. Prepare a graphic illustration to summarize findings in clear, coherent language, citing specific textual evidence. (TN CCSS Reading 1, 2, 4, 7)
- 14) Choose a health parameter relevant to a particular population of interest (such as heart disease in males and Alzheimer's in females) using multiple print and digital professional, scholarly and news resources. Develop an informative/explanatory text discussing the scope of the disease/disorder, affected and vulnerable populations, local incidence information as compared to state, region, and national data, existing policies or plans that target the disease/disorder, and healthcare interventions available. (TN CCSS Reading 1, 2; TN CCSS Writing 2, 7, 8, 9)
- 15) Investigate stigmas surrounding mental health and illness, obesity, smoking, drug abuse, and other public health issues in the community. Develop a public service announcement (PSA) or presentation to build awareness and understanding of the disease/disorder, addressing common misconceptions, outlining signs and symptoms, and providing strategies for management or containment. (TN CCSS Reading 2, 7; TN CCSS Writing 6, 8)

Mental Health Issues

- 16) Distinguish among the different domains of psychology, including but not limited to biological, clinical, cognitive, developmental, educational, experimental, and industrial-organizational domains. Articulate in a verbal, written, or digital format the key features, methodologies, basic assumptions, applications, and strengths and weakness of each domain. (TN CCSS Reading 2, 4; TN CCSS Writing 2, 9)
- 17) Differentiate the signs and symptoms of common psychobiological disorders, including anxiety disorders, depressive disorders, bipolar disorders, eating disorders, cognitive disorders, addictive disorders, personality disorders, sleep disorders, and factitious and dissociative disorders. Investigate available treatments and scientific research regarding the management of different psychobiological disorders. Research at least one historical and one modern case study and discuss the implications for the health of communities citing specific textual evidence from the case studies. (TN CCSS Reading 1, 2, 9; TN CCSS Writing 2, 8, 9)



- 18) Research trauma interventions for dealing with crisis and disaster, suicide, anger, aggression and violence, and physical, emotional, and sexual abuse. Identify major legislation that has been recently changed or developed in response to the prevalence of trauma in society and hypothesize outcomes of legislation. Test hypotheses using case studies. (TN CCSS Reading 2; TN CCSS Writing 1, 7, 8, 9)

Treatment and Therapeutic Communication

- 19) Examine the various treatment methodologies prescribed for mental and chronic health issues and explain why certain diseases and disorders call for different types of treatment, including but not limited to pharmacological regimens, changes in diet and exercise, counseling, and different types of therapy. (TN CCSS Reading 4, 5; TN CCSS Writing 2, 9)
- 20) Develop a detailed treatment plan with goals and objectives, medications, and/or alternative treatment and coping mechanisms for each of the mental conditions or chronic health issues studied in this course. Compare and contrast medications and treatments using medical documentation and cite specific textual evidence to defend elements of plan. (TN CCSS Reading 1, 9; TN CCSS Writing 2, 9)
- 21) Research and apply concepts of therapeutic communication in a mock scenario role-play surrounding a psychobiological or traumatic situation. (TN CCSS Reading 3)
- 22) Research, identify, and define the steps involved in psychiatric therapeutic holds and the skills necessary to apply Crisis Prevention Intervention techniques when dealing with someone in a mental health crisis using accurate medical terminology. Role-play these skills in a classroom for patients/clients experiencing one of the diseases or disorders identified in the course. (TN CCSS Reading 3, 4; TN CCSS Writing 9)
- 23) Synthesize the knowledge acquired in this course to draw connections between mental illnesses/disorders with broader issues affecting the health of communities. In a sustained research project, examine how families and neighborhoods can change as the result of chronic or acute incidents of trauma, such as generational poverty or acts of terrorism, and discuss the implications for community structure, family dynamics, and financial stability when mental health issues are prevalent within a community. Develop, edit, and revise a detailed plan to alleviate the effects of one such issue on a community, incorporating written, oral, and digital components to support the presentation of the plan. (TN CCSS Writing 2, 4, 5, 6, 7, 8, 9)



Standards Alignment Notes

*References to other standards include:

- TN CCSS Reading: [Tennessee Common Core State Standards for English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects](#); Reading Standards for Literacy in Science and Technical Subjects 6-12; Grades 11-12 Students (page 62).
 - Note: While not directly aligned to one specific standard, students ~~that~~who are engaging in activities outlined above should be able to also demonstrate fluency in Standards 6 and 10 at the conclusion of the course.
- TN CCSS Writing: [Tennessee Common Core State Standards for English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects](#); Writing Standards for Literacy in History/Social Studies, Science, and Technical Subjects 6-12; Grades 11-12 Students (pages 64-66).
 - Note: While not directly aligned to one specific standard, students ~~that~~who are engaging in activities outlined above should be able to also demonstrate fluency in Standards 3 and 10 at the conclusion of the course.
- P21: Partnership for 21st Century Skills [Framework for 21st Century Learning](#)
 - Note: While not all standards are specifically aligned, teachers will find the framework helpful for setting expectations for student behavior in their classroom and practicing specific career readiness skills.





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Medical Therapeutics

Primary Career Cluster:	Health Science
Consultant:	Sheila Carlton, (615) 532-2839, Sheila.Carlton@tn.gov
Course Code(s):	5999
Prerequisite(s):	Health Science Education
Credit:	1
Grade Level:	10-11
Graduation Requirements:	This course satisfies one of three credits required for an elective focus when taken in conjunction with other Health Science courses.
Programs of Study and Sequence:	This is the second course in both the <i>Therapeutic Nursing Services</i> and <i>Therapeutic Clinical Services</i> programs of study.
Necessary Equipment:	Physical assessment supplies, mannequins for Cardiopulmonary Resuscitation (CPR), First Aid supplies.
Aligned Student Organization(s):	HOSA: http://www.tennesseehosa.org Amanda Hodges, (615) 532-6270, Amanda.Hodges@tn.gov
Coordinating Work-Based Learning:	If a teacher has completed work-based learning training, he or she can offer <u>appropriate</u> placement in Job Shadowing or Clinical Internship. <u>For more information, please visit</u> http://tennesseewww.tn.gov/education/cte/wb/ for more information.
Available Student Industry Certifications:	None
Dual Credit or Dual Enrollment Opportunities:	There are no statewide dual credit/dual enrollment opportunities for this course. If interested in establishing a local opportunity, reach out to your local postsecondary institution. There are no known dual credit/dual enrollment opportunities for this course. If interested in developing, reach out to a local postsecondary institution to establish an articulation agreement.
Teacher Endorsement(s):	577
Required Teacher Certifications/Training:	None
Teacher Resources:	http://www.tn.gov/education/cte/HealthScience.shtml

Course Description

Medical Therapeutics is an applied course designed to prepare students to pursue careers in therapeutic services. Upon completion of this course, a proficient student will be able to identify careers in

therapeutics services; assess, monitor, evaluate, and report patient/client health status; and identify the purpose and components of treatments. The student will incorporate communication, goal setting, and information collection skills to be successful in the workplace. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, Partnership for 21st Century Skills Framework for 21st Century Learning, as well as Tennessee Anatomy and Physiology standards.*

Program of Study Application

This course is the second course in the *Therapeutic Nursing Services* and *Therapeutic Clinical Services* programs of study. For more information on the benefits and requirements of implementing these programs in full, please see the program of study description documents found on the Health Science website at <http://www.tn.gov/education/cte/HealthScience.shtml>.

Course Standards

Career Planning and Compliance

- 1) Research careers within the therapeutic field, and document educational requirements as well as state and national guidelines governing practicing professionals (such as licensing, certifications, training, compliance). Identify potential training programs, schools, and examinations appropriate to obtain required credentials for a specific occupation. (TN CCSS Writing 2, 7, 8, 9)
- 2) Investigate and compare the range of skills, competencies, and professional traits required for careers in the therapeutic field. Compare findings to current individual strengths and identify opportunities for personal development. Translate real-time and projected labor market data into narratives to identify local and national employment opportunities and determine areas of growth within therapeutic health fields. (TN CCSS Reading 2, 7; TN CCSS Writing 4, 6, 8, 9)
- 3) Compare and contrast the specific laws and ethical issues that impact relationships among patients/clients and the healthcare professional (for example, patient confidentiality). Citing specific textual evidence to support analysis, debate these issues in an oral or written format. (TN CCSS Reading 1, 9; TN CCSS Writing 1, 4, 8, 9)
- 4) Demonstrate understanding of major legislation and policy affecting health care interaction and delivery by explaining to a patient/client or classmate the American Hospital Association's "Patient Bill of Rights"; National Patient Safety Goals; and Joint Commission on Accreditation of Health Organizations (JCAHO). (TN CCSS Reading 2)
- 5) Summarize the Health Insurance Portability and Accountability Act (HIPAA) and explain characteristics of advanced directives, living wills, durable power of attorney, and other legal directives governing medical treatment. Explain, using domain-specific language and accurate definitions of legal concepts, how the content of these legal documents impacts patients' rights for all aspects of care. (TN CCSS Reading 1, 2, 4, 5)
- 6) Construct an argumentative essay developing a claim about the impact of a specific piece of local, state or federal legislation (such as, but not limited to, bans on smoking, changes to



entitlements, etc) on the health of Tennessee. Develop claim(s) and counterclaim(s) fairly, supplying data and evidence for reasoning, including an accurate summary of the legislation. (TN CCSS Reading 1, 2; TN CCSS Writing 1)

- 7) Summarize the economic impact of healthcare delivery on the national debt and develop a graph or other visual depicting findings, citing specific textual evidence. (TN CCSS Reading 1, 2, 7; TN CCSS Writing 4)
- 8) Calculate the costs of a range of health insurance plans, including deductibles, co-pays, PPO's and HMO's. Compare and contrast these plans with the provisions outlined in the Affordable Care Act. For a selected disease/disorder/injury, predict the total cost (including but not limited to the diagnostics, procedures, and medications involved) under each of these plans for the course of the treatment. (TN CCSS Reading 9)
- 9) Gather data related to a specific health issue in a local community (for example, dental health, mental/social health, and chronic health). Identify all healthcare professionals practicing in that community aligned to that specific health issue. Justify the need for an increase or decrease in the number of practicing healthcare professionals based on current data. (TN CCSS Writing 1, 7, 9)

Body Function and Structure

- 10) Outline the gross normal structure and function of all body systems, and summarize appropriate medical text(s) in order to list signs and symptoms of common diseases and disorders associated with each. (TN CCSS Reading 2; TN A&P 2, 3, 4, 5, 6)
 - a. Integumentary and lymphatic systems
 - b. Nervous and musculoskeletal systems
 - c. Cardiovascular and respiratory systems
 - d. Digestive and urinary systems
 - e. Reproductive and endocrine system

Infection Control/Medical Microbiology

- 11) Demonstrate concepts and skills of asepsis, Universal Precautions, sanitation, disinfection, and sterilization for patient/client care settings in adherence to standards and guidelines from the Center for Disease Control and Prevention (CDC) and the Occupational Safety and Health Administration (OSHA) in a lab/clinical setting. (TN CCSS Reading 3)
- 12) Define the term normal flora and explain how its deviation can prevent or cause a disease or disorder. Outline specific preventive measures to align to acceptable standards of care in the healthcare field. (TN CCSS Reading 4; TN CCSS Writing 4; TN A&P 5)
- 13) Compare and contrast healthcare-associated infections with non-healthcare-associated infections, citing relevant surveillance statistics, preventive measures, and methodologies concerning outbreak detection, management and education. (TN CCSS Reading 1; TN CCSS Writing 7)

Health Records



- 14) Research the documentation requirements and styles for at least two therapeutic careers. Demonstrate application of proper documentation techniques for a given patient assessment in each of the identified careers. (TN CCSS Reading 3; TN CCSS Writing 4, 7)
- 15) Define the terms Health Informatics, Health Information Technology, and Health Information Management. Compare and contrast the features and purposes of each in different healthcare settings (such as a physician's office, hospital, or emergency services site). (TN CCSS Reading 5)
- 16) Summarize information found in news media, professional journals, and trade magazines to examine how Telehealth has impacted the healthcare system and explain its benefits and challenges. (TN CCSS Reading 2)

Patient/Client Interaction

- 17) Evaluate factors that contribute to effective patient/client communication, demonstrating sensitivity to barriers, cultural differences, and special needs individuals. Use role-plays to demonstrate effective practices within a clinical or classroom setting. (TN CCSS Reading 3)
- 18) Accurately define and demonstrate an understanding of basic medical terminology in order to monitor patient/client status through assessment of:
 - a. History and Physical (H&P) include but not limited to: family, environmental, social and mental history.
 - b. Head-to-toe assessment
 - c. Vital Signs assessment (VS)
 - d. Height/weight, BMI calculation
 - e. Dietary assessment
 - f. Dental Assessment
 - g. Visual examination
 - h. Evaluation of diagnostic test results(TN CCSS Reading 4, 5; TN A&P 1)
- 19) Develop a detailed treatment plan, incorporating accurate medical language, for a case study patient using applicable assessment information following an interview with patient or family member. (TN CCSS Reading 3, 4; TN CCSS Writing 4)
- 20) Develop a patient health education plan including preventive measures, signs and symptoms of exacerbation of disease/disorder/injury, pharmacological needs, and support systems. Include citations from at least three medical texts. (TN CCSS Reading 1, 3; TN CCSS Writing 2, 4, 7, 9)
- 21) Monitor, evaluate, reassess and report significant changes in a patient/client's physical, social, or mental status and relate findings to normal and abnormal anatomy and physiology using either a case study or family member. (TN CCSS Reading 9; TN CCSS Writing 9)
- 22) Construct a chart or graph to identify and document all healthcare professionals involved in the assessment, monitoring, treatment, and rehabilitation (if applicable) for the patient/client used in previous standards. (TN CCSS Writing 4)



Therapeutic Statistics

- 23) Synthesize charts, statistics, and other health-related data to understand the distribution and determinants of disease in target populations as related to therapeutic services (such as heart disease in women), and communicate this knowledge to the public through role-plays, written materials, or other informational resources to improve the health of the community. (TN CCSS Reading 2, 7; TN CCSS Writing 4, 7, 8, 9)
- 24) Evaluate research related to diseases, statistical information, and epidemiology to determine the unique needs of a target population as related to therapeutic services (such as cardiovascular rehabilitation services). Compare the incidence of a particular disease/disorder within this population to its prevalence on local, state, regional, and national levels. (TN CCSS Reading 2, 9)
- 25) Investigate the research and development of pharmaceutical agents, trends related to biotechnology and pharmaceuticals, immunizations, and pharmacogenomics. Conduct a long-term independent research project to craft an explanatory text narrating scientific procedures or technical processes (such as DNA-specific medications). Cite evidence from articles in scientific journals, defining the questions the author seeks to address. (TN CCSS Reading 1, 2, 6; TN CCSS Writing 2, 7, 8, 9)

Community Health

- 26) Successfully perform American Red Cross or American Heart Association adult, child, and infant Basic Life Support (BLS) cardiopulmonary resuscitation (CPR) for Healthcare Providers and First Aid skills. (TN CCSS Reading 3)
- 27) Research a local community emergency response team. Investigate therapeutic careers involved with emergency response; describe the education and training required for these healthcare professionals. (TN CCSS Reading 2)

Standards Alignment Notes

*References to other standards include:

- TN CCSS Reading: [Tennessee Common Core State Standards for English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects](#); Reading Standards for Literacy in Science and Technical Subjects 6-12; Grades 9-10 Students (page 62).
 - Note: While not directly aligned to one specific standard, students ~~that~~who are engaging in activities outlined above should be able to also demonstrate fluency in Standard 10 at the conclusion of the course.
- TN CCSS Writing: [Tennessee Common Core State Standards for English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects](#); Writing Standards for Literacy in History/Social Studies, Science, and Technical Subjects 6-12; Grades 9-10 Students (pages 64-66).



- Note: While not directly aligned to one specific standard, students ~~that~~who are engaging in activities outlined above should be able to also demonstrate fluency in Standards 3, 5, and 10 at the conclusion of the course.
- TN A&P: Tennessee Science: [Anatomy and Physiology](#)
- P21: Partnership for 21st Century Skills [Framework for 21st Century Learning](#)
 - Note: While not all standards are specifically aligned, teachers will find the framework helpful for setting expectations for student behavior in their classroom and practicing specific career readiness skills.

