

## ALLI - Allied Health & Related Sciences

The following matrix indicates those courses deemed transferable among institutions listed across the top of the matrix. The numbers on the matrix represent the number of semester hours associated with the course at each institution and which institutions have agreed to transfer the commonly numbered course in each row.

You can view the group leaders at the bottom of the page. If you are interested in printing this page, please note that it is best to print in landscape mode.

### Allied Health

Prefix	Number	Gerta	Course Title	BSC	LRSC	NDSCS	WSC	DCB	DSU	NHSC
AH	134		Medical Disorders					3		
AH	138		Medical Coding I				3	2		
AH	139		Medical Coding II				3	2		
AH	140		Coding Certification Preparation				2			
AH	172		Medical Terminology				2			
AH	220		Fundamentals of Medical Transcription				3			
AH	266		Laboratory Procedures				2	2		
AH	267		Human Diseases and Surgical Procedures				2			
AH	268		Applied Medical Transcription I				5			
AH	269		Applied Medical Transcription II				5			
AH	270		Applied Surgical Transcription				3			
AH	281		Medical Insurance/Billing				3			
AH	282		Medical Law & Ethics				2			
AH/BOTE	171		Medical Terminology	3	3	4	3	3	3	3

### AH 134 Medical Disorders

**AH 138 Medical Coding I**

This course teaches the basic skills needed for medical coding. Emphasis is on CPT coding with practical application. (Fall) Prerequisites: BOTE 171, BOTE 134.

**AH 139 Medical Coding II**

This course teaches the basic skills needed for medical coding. An overview of ICD-9-CM coding and reimbursements issues. (Spring) Prerequisites: BOTE 171, BOTE 134.

**AH 140 Coding Certification Preparation**

A capstone course to prepare students for the Certified Coding Associate exam.

**AH 172 Medical Terminology**

Continued study of medical terminology related to pathology, diagnostic, surgical, clinical and laboratory procedures, and common abbreviations and acronyms by body systems. Prerequisite: BOTE 169, BOTE 170.

**AH 220 Fundamentals of Medical Transcription**

Basic theory of medical documents is covered. This includes formatting, spelling, number expression, punctuation, English grammar, and proofreading. Introduction to applied transcription. Prerequisite: Minimum typing speed of 35 corrected wpm; concurrent enrollment or prior completion of Medical Terminology, Anatomy and Physiology, and Pharmacology.

**AH 266 Laboratory Procedures**

A comprehensive study of laboratory tests and procedures by body system; radiology procedures; pathology procedures.

**AH 267 Human Diseases and Surgical Procedures**

Comprehensive study of disease processes (causes, symptoms, and treatments), organized by body systems. Study of surgical techniques, instruments, and operative procedures.

**AH 268 Applied Medical Transcription I**

Emphasis on development of accuracy, speed, and medical knowledge for transcription of letters, chart notes, history, and physical examination reports, consultations, emergency room reports, and discharge summaries.

**AH 269 Applied Medical Transcription II**

Emphasis on development of accuracy, speed, and medical knowledge for transcription of consultations, history, and physicals, operative procedures, diagnostic procedures, cardiac catheterizations in specialties of cardiology, gastroenterology, orthopedics, and pathology.

**AH 270 Applied Surgical Transcription**

Transcription of surgical dictation; e.g., chart notes, operative reports, consultations, etc.

**AH 281 Medical Insurance/Billing**

An introduction to the major nationwide medical insurance programs, diagnostic and procedural coding systems, and the filing of claim forms.

**AH 282 Medical Law & Ethics**

The study of the legal aspects of health information. Introduction to the legal system and legal terminology. Medical records as legal documents. Emphasis on confidentiality, release of medical information, consents, federal and state law.

**AH/BOTE 171 Medical Terminology**

Study of prefixes, suffixes, and root words of medical terms and their meaning, spelling, and pronunciation. Emphasis on building a working medical vocabulary based on body systems. AH 171 is the same course as BOTE 171.

**Dental Assisting**

Prefix	Number	Gerta	Course Title	NDSCS
DAST	101		Dental Radiology: Health and Safety (On-Line Only)	2
DAST	102		Infection Control (On-Line Only)	2
DAST	105		Office Practice and Management	1
DAST	111		Introduction to Chairside Assisting	3
DAST	120		Dental Assisting Expanded Function	2
DAST	132		Clinical Training I	3
DAST	132L		Clinical Training I Clinic	2
DAST	133		Clinical Training II	4

DAST	144		Biodental Science	2
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### **DAST 101 Dental Radiology: Health and Safety (On-Line Only)**

The course is for Dental Assistants that are currently working in a dental office and are planning to take the Dental Assisting National Board (DANB Exam. The course will provide a review of the critical content in the radiation health and safety component of the DANB exam as well as test taking strategies to enhance performance on the exam. The majority of the DANB test sites now require students to take the computerized format of the exam and taking an online course should make you more confident with the format when you take the DANB exam. Prerequisite: Student must be currently employed in a dental office with a minimum of three months Dental Assisting experience.

### **DAST 102 Infection Control (On-Line Only)**

This is a preparation course for the Infection Control segment of the Dental Assisting National board (DANB) examination. It is designed for Dental Assistants who are currently employed in the dental office with at least three months of chairside experience and who are preparing to take the examination. The course will provide relevant information through reading assignments, summaries, class discussion sessions, and examinations. Upon completion of this course, the student will have knowledge in all areas of infection control and be prepared for the DANB examination.

### **DAST 105 Office Practice and Management**

A study of the business aspects of dentistry including resumes & interviewing, staff & patient management, office communication skills, inventory & recall systems, dental forms, business records, & dental ethics.

### **DAST 111 Introduction to Chairside Assisting**

A study of dental team dynamics, infectious disease development and methods of control, didactic and laboratory instruction in basic chairside procedures, patient communication, and restorative dentistry.

### **DAST 120 Dental Assisting Expanded Function**

This course is an introduction to dental assisting expanded functions legal in this region. The course will focus on pre-clinical and clinical skills associated with coronal polishing, fluoride application, pit & fissure sealants, dental dam, excess cement removal, suture removal, periodontal dressing & orthodontic procedures. Prerequisites: Satisfactory completion of DAST 111.

### **DAST 132 Clinical Training I**

A continuation of Introduction to Chairside Assisting (DAST 111). The course will focus on dental specialty management

of patients with special needs, medical emergencies, the history of dentistry, and professionalism in the dental field.  
Prerequisites: Satisfactory completion of DAST 111.

### **DAST 132L Clinical Training I Clinic**

This course will provide the student with an opportunity to begin developing clinical skills by assisting in a variety of clinical assignments. The course will focus on assisting in the general & specialty dental offices & actively participating in the NDSCS Allied Dental Education Clinic. Prerequisite: Satisfactory completion of DAST 111.

### **DAST 133 Clinical Training II**

A continuation of Clinical Training I. The primary focus of this course is to provide dental assisting experience in selected dental offices. Prerequisites: Satisfactory completion of DAST 132L.

### **DAST 144 Biodental Science**

This course includes a study of oral embryonic development, oral histology and oral pathology. An introduction to dental therapeutics is included in this course. This course also serves as a basic introduction to nutrition and its role in the maintenance of oral health.

### **Dental Hygiene**

Prefix	Number	Gerta	Course Title	NDSCS
DHYG	101		Pre-Clinic I	1
DHYG	101L		Pre-Clinic Lab	3
DHYG	102		Clinic I	1
DHYG	102L		Clinic I Lab	4
DHYG	103		Clinic II	1
DHYG	103L		Clinic II Lab	3
DHYG	110		Oral Anatomy	2
DHYG	112		Oral Embryology & Histology	1
DHYG	114		Dental Radiology	3
DHYG	145		Periodontics I	1
DHYG	201		Clinic III	1

DHYG	201L		Clinic III Lab	4
DHYG	202		Clinic IV	1
DHYG	202L		Clinic IV Lab	4
DHYG	209		Head & Neck Anatomy	1
DHYG	210		Local Anesthesia	1
DHYG	212		Oral Pathology	1
DHYG	220		Community Dental Health	2
DHYG	242		Dental Materials	3
DHYG	243		Dental Jurisprudence	1
DHYG	245		Periodontics II	1

### **DHYG 101 Pre-Clinic I**

This course provides basic information discussing the life-cycle of plaque, disease development and methods of controlling and preventing dental diseases. Corequisite: DHYG 101L or DAST 111.

### **DHYG 101L Pre-Clinic Lab**

This course provides basic instruction in fundamental principles of clinical dental hygiene, prevention of disease transmission, dental hygiene assessment, implementation and evaluation procedures. Corequisites: DHYG 101.

### **DHYG 102 Clinic I**

This course provides instruction on fundamentals of medical histories/medical emergencies, principles of root morphology, periodontal debridement, intraoral camera, ultrasonic scaler, prophylaxis jet, aspiration, and tobacco cessation. Prerequisites: DHYG 101, DHYG 101L Corequisite: DHYG 102L.

### **DHYG 102L Clinic I Lab**

This course provides instruction and continuing information on fundamental principles of clinical dental hygiene. Clinical dental hygiene is that portion of the dental hygiene curriculum focused on developing the cognitive, affective, and psychomotor skills necessary for delivery of preventive, educational, and therapeutic services to the public. This comprehensive care involves an assessment of patient needs, planning for treatment and disease control, implementation of various clinical dental hygiene services, and an evaluation of both patient and operator efforts and the results.

Corequisite: DHYG 102.

### **DHYG 103 Clinic II**

This course provides a continuation of fundamental principles of clinical dental hygiene. Areas of focus will be neurological anatomy of the head and neck, local anesthesia and pain control, trauma, caries assessment, sealant application and amalgam polishing.

### **DHYG 103L Clinic II Lab**

This is a continuation of DHYG 102L. This course provides instruction and continuing information on fundamental principles of clinical dental hygiene. Clinical dental hygiene is that portion of the dental hygiene curriculum focused on developing the cognitive, affective and psychomotor skills necessary for delivery of preventive, educational and therapeutic services to the public. This comprehensive care involves an assessment of patient needs, planning for treatment and disease control, implementation of various clinical dental hygiene services and an evaluation of both the patient and operator efforts and the results. Prerequisite: DHYG102, DHYG 102L. Corequisite: DHYG 103.

### **DHYG 110 Oral Anatomy**

This course provides basic instruction in root and tooth morphology, charting of humans dentations, muscles, osteology and occlusion. Clinical consideration of dental anatomy is stressed.

### **DHYG 112 Oral Embryology & Histology**

This course is a study of tissue morphology, embryonic development and histologic features of the structure of the oral cavity.

### **DHYG 114 Dental Radiology**

A survey of the nature and behavior of principals of x-ray production, biological effects of radiation, radiation safety and techniques associated exposure, processing and mounting and interpretation of dental radiographs.

### **DHYG 145 Periodontics I**

A study of the normal and diseased periodontium to include the structural, functional and environmental factors. Emphasis on etiology, pathology, treatment modalities, therapeutic and preventive periodontics in a contemporary private practice setting.

**DHYG 201 Clinic III**

This course provides basic instruction care and management of special needs patients. Prerequisite: DHYG 103, DHYG 103L. Corequisite: 201L.

**DHYG 201L Clinic III Lab**

A continuation of DHGY 102L and DHGY 103L. This course provides instruction and continuing information on fundamental principles of Dental Hygiene. Clinical dental hygiene is that portion of the dental hygiene curriculum focused on developing the cognitive, affective, and psychomotor skills necessary for delivery of preventive, educational and therapeutic services to the public. This comprehensive care involves an assessment of patient needs, planning for treatment and disease control, implementation of various clinical dental hygiene services, and an evaluation of both the patient and operator efforts and the results. Prerequisite: DHYG 103L. Corequisite: DHYG 201.

**DHYG 202 Clinic IV**

The course provides instruction in continuing information of clinical dental hygiene. Specific topics to be discussed include; dental specialties, rubber dam, periodontal dressing and suture removal, total treatment planning and case assessments. Prerequisite: DHYG 201. Corequisite: DHYG 202L.

**DHYG 202L Clinic IV Lab**

Continuation of DHYG 201L. This course provides instruction in continuing information on fundamental principles of clinical dental hygiene, periodontal assessment, periodontal treatment planning and case assessments. Clinical dental hygiene is that portion of the dental curriculum necessary for delivery of preventive, educational and therapeutic services to the public. This comprehensive care involves an assessment of patient needs, planning for treatment and disease control, implementation of various clinical dental hygiene services, and an evaluation of both the patient and operator efforts and the results. Corequisite: DHYG 202.

**DHYG 209 Head & Neck Anatomy**

This course involves the study of the structure and function of the osteology, muscles, blood vessels and nerves of the head and neck as a whole. This course is recommended for all dental hygiene students who intend to enroll in the Local Anesthesia course.

**DHYG 210 Local Anesthesia**

A clinical application course designed to provide student with the knowledge and clinical skills to administer safe and effective local anesthesia.



**DHYG 212 Oral Pathology**

A study of fundamental disease processes involving the oral cavity and its related structures. The course includes the use of assessment and critical thinking skills in differentiating normal from abnormal conditions.

**DHYG 220 Community Dental Health**

This course is an overview of dental public health. It is designed to prepare the student to function in a community as a practitioner, educator, and a resource person in a variety of health settings. The course provides information followed by field experience in conducting a needs assessment then program development, implementation, and evaluation. When completed, the student has a working knowledge of community dental health and the cooperative relationship between dental private practice and dental public health in meeting community needs.

**DHYG 242 Dental Materials**

A study of the characteristics, physical properties, manipulation, uses and care of dental materials. Safety precautions relating to each material and procedure are incorporated.

**DHYG 243 Dental Jurisprudence**

A study of the history and philosophy of the legal and ethical aspects of dental hygiene practice in relation to standards at the state and national level. In addition this course includes writing a resume, interviewing, recall systems, and office communication.

**DHYG 245 Periodontics II**

This course will study the causes and classifications of disease with the principles of treatment. Advanced study of periodontology with special emphasis on new surgical modalities and equipment. Orientation to all aspects of the periodontal practice. Prerequisite: DHYG 145.

**Health Information Technician**

Prefix	Number	Gerta	Course Title	NDSCS
HIT	176		Introduction to Health Information Technology	4
HIT	181		Health Information Systems	4
HIT	184		Basic ICD-9-CM Coding	3
HIT	185		Basic CPT Coding	3

HIT	281		Legal Aspects of Health Information	3
HIT	282		Medical Statistics	2
HIT	284		Healthcare Quality Management	4
HIT	285		Reimbursement Methodologies	3
HIT	286		Intermediate Diagnosis Coding (ICD)	3
HIT	287		Computer Applications in Health Care	3
HIT	288		Intermediate Procedure Coding (CPT and ICD)	3

### **HIT 176 Introduction to Health Information Technology**

An introduction to health care delivery systems with emphasis on health information management (HIM), organizational structures, accreditation standards and regulatory agencies, and health care reform. Explores the components of the content of health record and documentation requirements, use and structure of health care data and data sets, and how these components relate to primary and secondary records. Introduction to legal and ethical issues applicable to health information.

### **HIT 181 Health Information Systems**

A detailed study of numbering and filing systems, indices, record control, record retention, equipment, and storage methods. Voice recognition, electronic records, and information technology will also be studied. Record processing software applications will be used. Prerequisite: HIT 176.

### **HIT 184 Basic ICD-9-CM Coding**

Introduces the student to nomenclatures and classification systems. Introduction to the basic coding principles of CPT-4 and ICD-9-CM coding systems. The format of each system, coding rules, and coding selection are studied. Application of correct coding standards and principles. Coding software applications will be introduced. Prerequisites exist.

### **HIT 185 Basic CPT Coding**

A continued study of the CPT-4 and ICD-9-CM coding systems with focus on coding actual cases. Other topics include legislation affecting coding/reimbursement, documentation requirements, and ethical coding principles. Coding software applications will be used. Prerequisites: HIT 184.

**HIT 281 Legal Aspects of Health Information**

The study of the legal aspects of health information, intro to the legal system and legal terminology. Medical records as legal documents, including preparation and presentation as evidence in court, are studied. Emphasis on confidentiality, release of medical information, consents, federal and state law will be explored. Prerequisite: HIT 181

**HIT 282 Medical Statistics**

A study of the sources of health data, methods of classification of data, application of formulas for commonly computed hospital statistics, summarizing and displaying data, reporting requirements, and the use of health statistics. Prerequisite: HIT 176.

**HIT 284 Healthcare Quality Management**

A study of continuous quality improvement, utilization management, risk management in health care. Also includes study of credentialing, accreditation standards, peer review organizations, and medical staff services. Selected management topics specific to health information departments will be covered. Prerequisite: HIT 176.

**HIT 285 Reimbursement Methodologies**

A study of the uses of coded data and health information in reimbursement and payment systems, including prospective payment systems, third party payers, professional fee billing and insurance procedures, explanation of benefits, peer review organizations, chargemaster description, managed care/capitation and compliance. Prerequisite: HIT 176, 182, 185.

**HIT 286 Intermediate Diagnosis Coding (ICD)**

A study in the application of ICD-9-CM diagnosis codes to higher-level case scenarios. Students will be introduced to prospective payment systems, ICD-10-CM, and SNOMED. Coding compliance and ethical coding practice reinforced. Grouping system application and encoder use integrated. Web-based instruction. Prerequisites: HIT 176, HIT 184, HIT 185. Corequisite: HIT 288, BIOL 213

**HIT 287 Computer Applications in Health Care**

Computer applications in health care will be introduced in this course including definitions, electronic data collection, storage, electronic health records, personal health records; how to implement, manage, and secure computer-based patient record systems. National health information initiatives and RHIOs will be discussed. Use of specialized HIM software. Pre-requisite: CSCI 116 Business Use of Computers.

### **HIT 288 Intermediate Procedure Coding (CPT and ICD)**

A study in the application of CPT and ICD-9-CM procedure codes to higher-level case scenarios. Students will be introduced to procedure based payment systems and the impact coding and sequencing has on reimbursement. Coding compliance and ethical coding practice reinforced. Grouping system application and encoder use integrated. Web-based instruction. Prerequisites: HIT 176, HIT 184, HIT 185. Corequisite: HIT 286, BIOL 213

### **Massage Therapy**

Prefix	Number	Gerta	Course Title	WSC
MASG	101		Introduction to Massage Therapy	2
MASG	120		Swedish Massage I	3
MASG	121		Massage Therapy Clinical I	3
MASG	150		Kinesiology Techniques I	3
MASG	220		Swedish Massage II	3
MASG	221		Massage Therapy Clinical II	6
MASG	240		The Business of Massage	2
MASG	250		Kinesiology Techniques II	3
MASG	260		Advanced Massage Techniques	4
MASG	270		Professional Conference	1

### **MASG 101 Introduction to Massage Therapy**

An overview of the field of massage therapy. Topics covered include: Historical perspectives on massage; ethics and legalities; universal precautions; indications and contraindications; communications and documentation; reimbursement issues; informed consent; practice environments; and general policies and procedures in running a massage therapy practice.

### **MASG 120 Swedish Massage I**

The technique of traditional (Swedish) massage is presented. Students will learn the theory and practice the application of Swedish massage techniques including, but not limited to, effleurage, petrissage, and tapotement. Students will also learn the theory and application of proper body mechanics, positioning, and draping. Primary emphasis will be in the application

of these techniques to the lower extremities and back region.

### **MASG 121 Massage Therapy Clinical I**

Students will obtain additional practice in the application of the massage techniques studied in MASG 120 and MASG 150. Students are required to complete a minimum of fifty massage. Twenty-five massages will be completed under the supervision of the instructor and twenty-five completed independently. Students will practice obtaining medical histories and documenting services provided.

### **MASG 150 Kinesiology Techniques I**

Students will learn the assessment process including manual muscle testing as it applies to massage therapy. Students will study surface anatomy and identification of landmarks. The appropriate technique of stretching hypomobile tissues will be presented.

### **MASG 220 Swedish Massage II**

Students continue the application of techniques and theory of Swedish massage. Students will apply these techniques to the remaining regions of the body.

### **MASG 221 Massage Therapy Clinical II**

Students will obtain additional practice in the application of the massage techniques studied in MASG 120, 150, 220, and 250. Students are required to complete a minimum of one hundred massages. Fifty massages will be completed under the supervision of the instructor and fifty completed independently. Students will practice obtaining medical histories and documenting services provided.

### **MASG 240 The Business of Massage**

### **MASG 250 Kinesiology Techniques II**

Students will learn the theory and practice the application of various other massage techniques including, but not limited to, acupressure, on-site, deep tissue, sports massage, abdominal, and facial massage. Students will learn theory and practice of the complementary modalities of heat, cold, and hydrotherapy.

### **MASG 260 Advanced Massage Techniques**

## **MASG 270 Professional Conference**

### **Medical Laboratory Sciences**

<b>Prefix</b>	<b>Number</b>	<b>Gerta</b>	<b>Course Title</b>	<b>BSC</b>	<b>MASU</b>	<b>NDSU</b>	<b>UND</b>
MLS	101		Intro to Medical Laboratory Science	1			2
MLS	103		Phlebotomy	3			
MLS	104		Phlebotomy Internship	8			
MLS	111		Introduction to Medical Laboratory Science			1	
MLS	201		Immunology	4			
MLS	205		Clinical Internship I	1			
MLS	215		Clinical Internship II	2			
MLS	225/L-- 325/L		Hematology/Lab	3	3/1		2
MLS	235/L		Clinical Chemistry I/Lab	3			
MLS	240		Immunohematology	3			
MLS	245		Clinical Microbiology I	3			
MLS	255		Clinical Internship III	12			

#### **MLS 101 Intro to Medical Laboratory Science**

An introduction to the medical laboratory sciences and the professions of clinical laboratory science. Professional ethics, medical terminology, laboratory safety, the use and care of basic laboratory equipment, routine urinalysis, and identification of ova and parasites. Note: Contingent on agreement from course professors at both campuses.

#### **MLS 103 Phlebotomy**

Phlebotomy is the "art of drawing blood". The course consists of a knowledge component to include: anatomy of hand, arm, foot and blood vessels; blood vessels; blood composition, specimen types, and coagulation factors. The motor skills component will include instruction in manual phlebotomy techniques, and drawing and handling specimens. The attitude component discusses the public relations aspect of the job and job applications. Open to all students.

#### **MLS 104 Phlebotomy Internship**

The internship provides a supervised rotation of no less than 160 hours in the phlebotomy section of the affiliated clinical laboratory. Prerequisites: acceptance into the Phlebotomy Technician program, MLS 103.

#### **MLS 111 Introduction to Clinical Laboratory Science**

Introduction to the clinical laboratory science profession. Lectures, discussions, and field trips focus on professional traits and communication, ethical behavior of the health care provider, major curriculum requirements, and scope of practice in the profession.

#### **MLS 201 Immunology**

The foundations of diagnostic serology, immunochemistry, histocompatibility and hematology as well as new technology such as monoclonal antibodies and molecular biology are covered in order for students to become better prepared for a career in laboratory medicine. Prerequisites: General Biology 150-151 or equivalent, CHEM 115, 116 or 121, 122 strongly recommended. Open to all students.

#### **MLS 205 Clinical Internship I**

Supervised rotation in blood drawing and the clinical microscopy department for the clinical affiliate. Prerequisites: MLS 101, 225, and 245.

#### **MLS 215 Clinical Internship II**

Supervised experience in the hematology, chemistry, microbiology and blood banking departments of the affiliated clinical laboratory. Prerequisites: MLS 101, 225, 235, and 245.

#### **MLS 225/L--325/L Hematology/Lab**

Identification of normal and abnormal blood cells in various hematological disorders. Theory and application of hematology procedures. Morphologic examination of blood and marrow and laboratory testing used in hematological study.

**MLS 235/L Clinical Chemistry I/Lab**

Lecture and laboratory. Principles of instrumentation and the theory and application of the biochemical tests performed in the clinical laboratory. The student will receive instruction in the basic techniques required for performing routine manual determinations. Prerequisites exist.

**MLS 240 Immunohematology**

Lecture and laboratory. Fundamental principles of immunology are presented and applied to serology and blood banking. Donor selection, blood collection and processing, blood components. Preparation and administration of blood and genetics of blood group inheritance. Theory of blood coagulation and routine procedures. Prerequisites: MLS 101, 225.

**MLS 245 Clinical Microbiology I**

The morphology, cultured characteristics and identification of bacteria pathogenic to man and their role in infectious disease are discussed, as well as antibiotics susceptibility testing and rapid identification systems.

**MLS 255 Clinical Internship III**

Supervised experience in the hematology, chemistry, microbiology, and blood banking departments of the affiliated clinical laboratory. Prerequisites: All MLS courses.

**Medicine**

Prefix	Number	Gerta	Course Title	LRSC	UND
MED	100		Introduction to Health Professions	1	1
MED	205		Medical Terminology	1	1

**MED 100 Introduction to Health Professions**

Introduction to the roles, ethics, certification, education, employment, and fundamental knowledge and skills related to the health sciences professions.

**MED 205 Medical Terminology**

Knowledge of medical terminology learned through the study of different body systems.



## Nutrition

Prefix	Number	Gerta	Course Title	NDSCS
NUTR	255		Eating Disorders	1

### NUTR 255 Eating Disorders

A study of the incidence, cause, diagnosis, and treatment of the major eating disorders: anorexia nervosa, bulimia, and compulsive eating. Prerequisite: NUTR 240 or currently enrolled in NUTR 240.

## Occupational Therapy Assistant

Prefix	Number	Gerta	Course Title	NDSCS
OTA	101		Introduction to Occupational Therapy	3
OTA	102		Theory I	5
OTA	111		Clinical Techniques	2
OTA	112		Clinical Techniques II	4
OTA	120		Medical Terminology	2
OTA	141		Therapeutic Media	2
OTA	151		Professional Skill Building	1
OTA	153		Disability Awareness	1
OTA	154		Fieldwork Level I - Experience I	1
OTA	155		Fieldwork Level I - Experience II	1
OTA	201		Theory II	4
OTA	211		Clinical Techniques III	3
OTA	212		Group Techniques	1
OTA	214		Orientation to Fieldwork Level II	1
OTA	220		Teaching Assistant-Medical Terminology	2

OTA	241		Teaching Assistant: Media	2
OTA	252		Professional Skill Building	1
OTA	253		COTA Issues	2
OTA	254		Fieldwork Level II - Experience I	6
OTA	255		Fieldwork Level II - Experience II	6
OTA	256		Seminar	1

### **OTA 101 Introduction to Occupational Therapy**

Designed to introduce the student to the profession of Occupational Therapy. The following topics are discussed: basic concepts of Occupational Therapy, health, rehabilitation, ethics, and an overview of the profession, as well as the role of occupational therapy personnel in various practice setting practice settings. Prerequisites: Admission in OTA program.

### **OTA 102 Theory I**

Theory and application of Occupational Therapy in the evaluation and treatment of physical, developmental, and psychosocial conditions commonly treated in Occupational Therapy during childhood, adolescence and young adulthood. A basic overview of sensory-integrative development is also addressed. Prerequisites exist.

### **OTA 111 Clinical Techniques**

Lecture/lab course providing theory and practice with task groups, bulletin boards, party planning, goal planning, behavior management, documentation, body mechanics and wellness. Corequisite: OTA 101.

### **OTA 112 Clinical Techniques II**

Lecture/lab course on therapeutic approaches and media used with young clients. Roles and occupational performance tasks of children and young adults are addressed. Prerequisites exist. Corequisites: OTA 102.

### **OTA 120 Medical Terminology**

A study of medical word construction including prefixes, suffixes, and combining forms and abbreviations used in the medical field and rehabilitation included.

### **OTA 141 Therapeutic Media**

Provides student with practice in basic techniques and procedures used in ceramics, leather, woodworking and other craft

media. Assembly of kits, safe use of hand and power tools decorating and finishing methods and firing the kiln are required. Teaching activities to clients and therapeutic application is discussed. Lab/lecture.

### **OTA 151 Professional Skill Building**

Designed to enhance personal/work skills in a small group atmosphere. Includes application/practice with assertive behavior, leadership roles, goal planning. Prerequisites: OTA 101, OTA 120, OTA 111.

### **OTA 153 Disability Awareness**

Provides student with practice in organizing and presenting information about various disabilities to the general public. Activities may include interactive TV, puppet shows and lectures to health classes. Lab.

### **OTA 154 Fieldwork Level I - Experience I**

Designed to provide the student with exposure to a variety of practice settings, personnel, and clients across the life span. Observation and documentation skills are practiced, as well as participation in patient treatment per discretion of the clinical supervisor. One three-day experience or 40 hours is required. Prerequisites: OTA 101, OTA 111, OTA 120. Corequisites: OTA 102, OTA 112, OTA 151.

### **OTA 155 Fieldwork Level I - Experience II**

Designed to provide the student with exposure to a variety of practice settings, personnel, and clients across the life span. This experience follows Experience I and in a setting that provides therapy to a different population of clients than the first experience. Observation, documentation skills are practiced. In addition, the student will participate in patient treatment. One five-day experience or 40 hours. Prerequisites: All first-year OTA and general ed courses. Corequisites: OTA 201, OTA 211 and OTA 252.

### **OTA 201 Theory II**

Theory and application of Occupational Therapy in the evaluation and treatment of middle and older adult with psychosocial dysfunction and physical disabilities. Commonly used frames of reference utilized in adult treatment settings will be identified. The role of the OTA in evaluation and treatment will be emphasized. May include field trips to selected setting. Prerequisites: Successful completion of all first year OTA courses. Corequisites: OTA 155, OTA 211, OTA 212 and OTA 252.

### **OTA 211 Clinical Techniques III**

Lecture/lab course. Practical application of the OTA's roles in using evaluations and therapeutic techniques. Experience in

applying principles of exercise, rehabilitation techniques, orthotics and group activities. Applied to a variety of diagnostic groups. Prerequisites: Successful completion of all first-year OTA courses. Corequisites: OTA 155, OTA 201, OTA 212 and OTA 252.

### **OTA 212 Group Techniques**

Group processes and techniques applied to patients with physical, developmental, and psychosocial disabilities. Leading participating in task groups is required. Prerequisites: Successful completion of all first-year OTA courses. Corequisite: OTA 201, OTA 211, OTA 252.

### **OTA 214 Orientation to Fieldwork Level II**

This course is designed to assist in the adjustment from the academic setting to clinical practice. Content includes, but is not limited to, writing fieldwork objectives, supervision styles, stress management and professional behavior. Policies governing fieldwork will be emphasized. The NBCOT certification procedures will be addressed. This course is taken the same semester as Fieldwork Level II. Prerequisites: All OTA courses completed with at least a "C". Corequisite: OTA 213.

### **OTA 220 Teaching Assistant-Medical Terminology**

Optional course which requires student to assist in OTA 120 Medical Terminology. Duties to include test proctoring, organizing review session, and other duties as assigned. Prerequisite: OTA 120.

### **OTA 241 Teaching Assistant: Media**

Optional course which requires student to assist in media lab supervision, demonstrate techniques, participate in classroom maintenance and carry out other duties as assigned. Prerequisite: OTA 141.

### **OTA 252 Professional Skill Building**

Continuation of OTA 151 Professional Skill Building. Designed to enhance professional behaviors expected in health care work arena. Includes application/practice in, but not limited to, time and stress management, interpersonal and documentation skills. Prerequisite: OTA 151. Corequisite: OTA 201, OTA 211, OTA 212, OTA 155.

### **OTA 253 COTA Issues**

This course is designed to enhance the OTA's participation in basic support services in occupational therapy, as well as the legal, ethical, and supervisory issues in professional practice. Impacts of the health care delivery system on OT practice will be addressed.

### **OTA 254 Fieldwork Level II - Experience I**

Supervised experience of eight weeks or equivalent under the direction of qualified Occupational Therapy personnel in approved fieldwork sites. The students will work with clients with a variety of physical disabilities, psychosocial dysfunction, or developmental delays or disabilities across the life span. The students will be expected to use knowledge and skills acquired in the academic setting to evaluate, treat clients and document according to prescribed regulations. The students will further be expected to conduct themselves in a professional manner while at the clinical site. Prerequisites: Completion of all academic requirements and Level I Fieldwork (GPA 2.0 or greater).

### **OTA 255 Fieldwork Level II - Experience II**

Supervised experience of eight weeks or equivalent under the direction of qualified Occupational Therapy personnel in approved fieldwork sites. This experience follows Experience I and in a setting that provides therapy to a different population of clients than in the first experience. Client evaluation, treatment implementation and documentation will be expected of the students. In addition, the students will be expected to conduct themselves in a professional manner at the clinical site. Prerequisites: Completion of all academic requirements and Level Fieldwork (GPA 2.0 or greater).

### **OTA 256 Seminar**

Lecture/lab course which reviews O.T. process for a variety of individuals and populations served by occupational therapy practitioners. Participation in case presentations and other learning activities such as practice tests and test-taking strategies is required. Designed to provide structured preparation for national certification examination. Prerequisite: Successful complete of OTA courses, including at least one Level II Fieldwork Experience.

### **Pharmacy Technician**

Prefix	Number	Gerta	Course Title	BSC	NDSCS	WSC	DCB	DSU	MASU	MISU	UND	VCSU
PHRM	100		Basic Pharamacology for Allied Health		2							
PHRM	101		Orientation to Pharmacy Practice		1							
PHRM	102		Pharmeceutical Calculations		3							
PHRM	105		Institutional Pharmacy		3							
PHRM	111		Pharmacy Records & Inventory Management		2							
PHRM	115		Community Practice		3							
PHRM	116		IV and Sterile Product Preparation		1							

PHRM	121		Chemical/Physical Pharmacy		2							
PHRM	121L		Chemical/Physical Pharmacy Lab		1							
PHRM	125		Pharmacology for Pharmacy Technicians		3							
PHRM	131		Pharmacy Internship Community Based		3							
PHRM	137		Pharmacology For Business			2						
PHRM	141		Pharmacy Intership Hospital Based		3							
PHRM	201		Dental Pharmacology		2							
PHRM	205		Pharmacology for Nursing		2							
PHRM	215/315		Introduction to Pharmacology	3	2	3	3	2	3	3	3	2

### **PHRM 100 Basic Pharmacology for Allied Health**

This course is designed for students in various Allied Health programs including: Health Information Technician, Medical Transcription, Coding, Medical Administrative Assistant and others. The course is a basic introduction to the principles of pharmacology, classes of drugs by body systems as well as antivirals, antibiotics, vaccines and immunizations, and chemotherapy agents. Basic drug concepts and nomenclature required in the allied health professions will be stressed.  
(F)

### **PHRM 101 Orientation to Pharmacy Practice**

Exploring the role of a pharmacy technician in various healthcare settings. Topics will include community and hospital organizations, the role of technicians in today's health-care industry and roles of other various health care workers. Learning activities will include field trips to pharmacies and guest lectures within pharmacy fields.

### **PHRM 102 Pharmaceutical Calculations**

Students will demonstrate the ability to perform pharmaceutical calculations required for the usual dosage determinations and solution preparation. Emphasis will be placed on basic computations, use of measuring tools, dosage computations, compounding calculations and solution preparation. Topics covered include ratio and proportion, dilution and concentration, milliequivalent, units, and intravenous flowrates.

### **PHRM 105 Institutional Pharmacy**

The students will be introduced to the organization and function of a hospital pharmacy and to the duties and responsibilities of the pharmacy technician. This will include law, standard of ethics that govern pharmacy, and medical

terminology. JCAHO, quality assurance and inventory control will also be discussed. The course will focus on pharmacy technician/pharmacist relationships as well as relationship with other health professionals. The laws governing these relationships will also be studied.

### **PHRM 111 Pharmacy Records & Inventory Management**

In this course the technician will master the skills needed to maintain records involving a pharmacy's inventory. Emphasis will be placed on inventory control, ordering medications, receiving and checking in orders, paying of invoices, and pricing. Also covered will be topics in third-party billing, stocking shelves, rotation of stock, record-keeping and medication returns. Prerequisite: Successful completion of PHRM 102.

### **PHRM 115 Community Practice**

In this course the student technician will master the skills needed to interpret, dispense, label and maintain patient profiles. Topics include pharmaceutical-medical terms, abbreviations and symbols, prescription drug calculations, drug selections and preparation and over the counter drugs. Prerequisite: Successful completion of PHRM 102.

### **PHRM 116 IV and Sterile Product Preparation**

In this course the students will be introduced to sterile product preparation including selections of syringes, needles and calculations. Prerequisite: Successful completion of PHRM 102.

### **PHRM 121 Chemical/Physical Pharmacy**

In this course students will master the skills needed to interpret, dispense and label medications ordered by the physicians. Students will be introduced to concepts involving the stability and compatibility of various preparations. Prerequisite: Successful completion of PHRM 102.

### **PHRM 121L Chemical/Physical Pharmacy Lab**

This class is the laboratory class for PHRM 121. The students will master the skills needed to interpret, compound, dispense and label medications ordered by the physician. Activities will include proper use of the prescription balance, compounding topical medications, proper use of volume measuring devices, and mixing liquid preparations. Co-requisite: PHRM 121. Prerequisite: Successful completion of PHRM 102.

### **PHRM 125 Pharmacology for Pharmacy Technicians**

An introduction to drug principles, legislation, sources, forms, major classifications and actions. It prepares the student to

begin a systematic and continuing study of drug therapy associated with common health problems.

### **PHRM 131 Pharmacy Internship Community Based**

Students will participate for a minimum of 160 hours in a certified community pharmacy setting supervised by a qualified pharmacist. The duties and tasks to be performed will be pre-determined based on classroom instructions to reinforce competencies. The duties and tasks to be performed will be agreed upon by the student and the supervising pharmacist to guarantee learning. Performance activities are to include customer relations; following workplace rules, procedures, ethics and legal parameters; processing of prescriptions including compounding, count and pour, packaging and labeling; inventory and stock operations including control, ordering and pricing data entry and record keeping. Prerequisites: Successful completion of all courses with a grade of "C" or better in Pharmacy Technician core curriculum courses.

### **PHRM 137 Pharmacology For Business**

Covers the trade and generic names of the most commonly used drugs with emphasis on dosages, route of administration, and uses.

### **PHRM 141 Pharmacy Intership Hospital Based**

Each student will be placed in a certified institutional site (hospital) for on-the-job training and experience. Supervision will be by a registered, licensed pharmacist. Students will be assigned activities and will be evaluated in the following performance areas: (1) Performance of job duties and application of SCANS competencies; (2) Working knowledge of administrative structure and systems; (3) Compliance with institution's policies and procedures; (4) Perform billing operations; (5) Use of drug dispensing systems; (6) Compound, package and label medications; (7) Process data on an electronic system; (8) Prepare intravenous admixtures; (9) Use of proper procedures in working with controlled substances; (10) Inventory maintenance; (11) Use of technology, including computer systems and robots; (12) Record keeping. Prerequisites: Successful completion of all courses, with a grade "C" or better in Pharmacy Technician core curriculum courses.

### **PHRM 201 Dental Pharmacology**

An introduction to drug principles, legislation, sources, forms, major classifications, actions, interactions and side effects. It prepares the student to begin a systematic and continuing study of drug therapy associated with common dental and health problems.

### **PHRM 205 Pharmacology for Nursing**

An introduction to drug legislation, sources, forms, major classifications and actions. It prepares the student to begin a



systematic and continuing study of drug therapy associated with common health problems and provides necessary information for safe administration of medications. Prerequisites: None. (Chemistry is highly desirable.) (Second semester of curriculum.)

### **PHRM 215/315 Introduction to Pharmacology**

A fundamental discussion of the scope of pharmacology, including terminology used. Drug laws, dosage forms, and patient variabilities that affect drug usage will be covered. Important drugs used in practice will be studied, including basic principles, therapeutic uses, and adverse effects. Prerequisites: BIOL 220/220L and CHEM 115/115L.

### **Surgical Technology**

<b>Prefix</b>	<b>Number</b>	<b>Gerta</b>	<b>Course Title</b>	<b>BSC</b>
SRGT	105		Medical Terminology for Surgical Technology	3
SRGT	110		Introduction to Surgical Technology	3
SRGT	120		Introduction to Operating Room Procedures	3
SRGT	125L		Introduction to Operating Room Procedures and Materials Lab	2
SRGT	130		Introduction to Operating Room Materials	3
SRGT	215		Introduction to Pharmacology for Surgical Technology	3
SRGT	240		Speciality Surgical Procedures	5
SRGT	250		Surgical Procedures Laboratory	2
SRGT	260		Professional Skills for the Surgical Technologist	3
SRGT	280		Operating Room Clinical Internship	12

### **SRGT 105 Medical Terminology for Surgical Technology**

Three semester hours of lecture per week. This course will cover the basic knowledge of medical terminology that the surgical technologist needs to function effectively in the health care setting. The student will learn correct pronunciation and spelling of medical terms. The 12 body systems are reviewed with emphasis on the terminology of anatomy, pathology, diagnosis, and treatment for each system. Symbols and abbreviations used in medical terminology are identified throughout the course. The course concludes with the terminology associated with the diagnostic techniques of examination, imaging, and pharmacology.

**SRGT 110 Introduction to Surgical Technology**

SRGT 110 will cover the fundamentals of working as a surgical technologist. Included will be discussions of the surgical technologist and the field of surgical technology, professional credentialing, and the disciplines of other surgical team members. The organizational structure of health care facilities and their financing, hospital departments and interdepartmental communication will continue the semester. Surgical suite design, individual operating room design, safety considerations and communication skills for the surgical technologist will complete the semester. Prerequisites: BIOL 220, 220L.

**SRGT 120 Introduction to Operating Room Procedures**

This course is the introduction to patient care concepts. Included will be discussion of consents, preoperative routines, and positioning, prepping, and care of surgical specimens. Introduction to the principles of asepsis, the surgical conscience, and disinfection and antisepsis will complete the semester. Prerequisites: BIOL 220 and 220L.

**SRGT 125L Introduction to Operating Room Procedures and Materials Lab**

An introduction to the principles of asepsis, the surgical conscience and disinfection and antisepsis, along with the basic general surgical instrumentation. Included will be the types and function of these surgical instruments. The routine procedures for patient preparation and admission to the operating room include patient identification and transportation to the operating room. The semester will continue with identifying the equipment and other materials utilized by the surgical technologist in the practice setting, positioning for surgery and surgical skin preparation. The sterile set up process of opening sterile supplies, preparation of the sterile instruments for any operative procedure along with instruction in the use of suture and needles is practiced. The semester concludes with the care and handling of surgical specimens and instruction in the use of and draping materials and basic draping sequence for any operative procedure.

**SRGT 130 Introduction to Operating Room Materials**

This course will cover the instrumentation, equipment and other materials utilized by the surgical technologist in the practice setting. Included will be the types and function of surgical instruments and equipment, and surgical supplies. Instruction in the use of suture, needles, and draping materials with the set up, opening and preparation of instruments and supplies for any operative procedure will complete the semester. Prerequisites: BIOL 220, 220L.

**SRGT 215 Introduction to Pharmacology for Surgical Technology**

This course will cover the basic knowledge of pharmacology that the surgical technologist is required to have for safe patient care. The student will identify the various systems of dosage and measurement utilized in standard pharmacology,

convert equivalents from one system to another, and accurately identify, mix, and measure drugs for patient use. Definitions of general terminology associated with drug use and the procedures for the care and handling of drugs and solutions will follow. The classifications of drugs, the principles of drug use in the care of surgical patients, and a detailed discussion of anesthesia, including the preoperative drugs, intraoperative anesthetic agents, and complications of anesthesia, will conclude the semester. Prerequisites: BIOL 221 and 221L, SRGT 110, 120, and 130.

### **SRGT 240 Speciality Surgical Procedures**

This course will cover surgical procedures in all surgical specialty areas. Included will be discussion of the preoperative diagnosis and types of incisions and wound closure. The surgical specialties of general and rectal surgery, peripheral vascular surgery, endoscopic surgery, obstetric and gynecologic surgery, and genitourinary surgery will begin the semester. These will be followed by the specialties of ear, nose, and throat surgery, head and neck surgery, oral and maxillofacial surgery, plastic and hand surgery, and orthopedic surgery. Neurosurgery and thoracic/cardiac surgery will be the next surgical specialties to be covered. The semester will conclude with trauma surgery, transplant surgery, and organ procurement surgery. General pediatric and geriatric aspects of surgery will be included in each area of surgical specialty. Prerequisites: BIOL 221 and 221L, SRGT 110, 120, and 130. Corequisite: SRGT 250.

### **SRGT 250 Surgical Procedures Laboratory**

This lab will cover surgical procedures in all surgical specialist areas. The surgical specialties of general and rectal surgery, obstetric and gynecologic surgery, and ophthalmic surgery will begin the semester. These will be followed by ear, nose and throat surgery, head and neck surgery, oral and maxillofacial surgery, plastic surgery, genitourinary surgery, orthopedic surgery, hand surgery, neurosurgery, and thoracic and cardiac surgery. The semester will conclude with peripheral vascular surgery, general pediatric surgery, operative endoscopic surgery, trauma surgery, transplant surgery, and organ procurement surgery. Prerequisites: BIOL 220/220L, 221/221L; SRGT 110, 120, 130. Concurrent registration in SRGT 140 is required.

### **SRGT 260 Professional Skills for the Surgical Technologist**

This course will cover the patient's response to illness and hospitalization including the physical, spiritual, and psychological needs of the patient and the patient's bill of rights. Advanced patient care skills of vital signs, managing emergency situations, and documentation will follow. The semester will continue with personal relations, professional relations, and legal, ethical and moral responsibilities of the surgical technologist. A discussion of health agencies, accrediting agencies, and job-seeking skills will conclude the semester. Prerequisites: BIOL 221 and 221L, SRGT 110, 120, and 130.

## **SRGT 280 Operating Room Clinical Internship**

SRGT 280 will allow students to practice the skills, critical thinking, and professional behaviors that comprise competent entry-level surgical technology practice. This experience will take place in a patient care setting. The student performance will include 2nd and 1st scrubbing on minor and major cases, doing counts, basic setups, holding retractors, passing instruments, and in general, assisting operating room personnel. The students will also perform circulating duties, including pre-operative, intra-operative, and post-operative care, allowing the student to function in the role of a supervised circulating surgical technologist. Prerequisites: All other SRGT courses.

The following individuals are leaders for this discipline. Those marked with an asterisk (\*) are chairs.

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