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.

A list of the academic discipline liaisons contacts for each institution are listed at the bottom of this document.

Allied Health

Prefix	Number	Course Title	BSC	DCB	DSU	LRSC	NDSCS	WSC	NHSC
AH	134	Medical Disorders		3					
AH	136	Clinical Procedures		3					
AH	137	Clinical Specialties		2					
AH	138	Medical Coding I		3				3	
AH	139	Medical Coding II		3				3	
AH	140	Coding Certification Preparation						2	
AH	142	Intermediate Coding I		3					
AH	143	Intermediate Coding II		3					
AH	172	Medical Terminology						2	
AH	220	Fundamentals of Medical Transcription						3	
AH	231	Healthcare Law & Ethics		3					
AH	257	ECG/EKG Interpretation		2					
AH	258	Practical Skills Lab		2					
AH	266	Lab Test/Diagnostic 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				3	
AH	282	Medical Law & Ethics						2	
AH	287	Computer Applications in Healthcare		3					
AH	171	Medical Terminology	3	3	3	3	4	3	3

AH 134 Medical Disorders
This course provides the student with a basic understanding of human diseases and appropriate interventions. Content includes statistics, risk factors, signs and symptoms, diagnostic studies, and treatments specific to each disease/disorder.

AH 136 Clinical Procedures
Introduce duties and responsibilities of Medical Assistants in clinical practice. Includes data collection and documentation, legal issues, physical exams, laboratory and other diagnostic studies, treatment modalities, emergencies, vital signs, and infection control. Pre/Co-requisites: AH 171 & AH 134

AH 137 Clinical Specialties
Knowledge in the clinical specialty area giving basic understanding of terminology, exams, diagnostic testing, and procedures in these areas. Knowledge and procedures related to specialty areas in the clinical setting including geriatrics, OB-GYN, male reproductive system, pediatrics, general body systems, minor surgery, rehabilitation, emergencies, and cardiology. Pre/Co-requisites: AH 171 & AH 134

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. The course is an overview of ICD-10 coding and reimbursement issues. Prerequisites: AH 171, AH 138.

AH 140 Coding Certification Preparation
A capstone course to prepare students for the Certified Coding Associate exam.

AH 142 Intermediate Coding I
This course teaches the basic skills needed for medical coding. Emphasis is on ICD-10-CM coding with practical application.

AH 143 Intermediate Coding II
This course gives students the opportunity to analyze medical case studies and assign correct ICD-10-CM diagnosis codes and CPT procedure codes adhering to correct coding guidelines.

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 231 Healthcare Law & Ethics
This course will cover laws pertaining to health care (confidentiality, patient rights, HIPPA regulations) as well as common ethical problems that are encountered and how these problems are handled.

AH 257 ECG/EKG Interpretation
This course is designed for students who want to learn the basic ECG skills of measuring, recognizing, and interpreting simple cardiac rhythms. Topics include correct lead placement, troubleshooting poor tracings, and recognition and measurement of various ECG waves.

AH 258 Practical Skills Lab
An introduction to the major nationwide medical insurance programs, diagnostic and procedural coding systems, and the filing of claim forms.

AH 266 Laboratory Procedures
This course teaches basic laboratory studies, normal and abnormal values, lab studies specific to body systems and basic diagnostic procedures. Prerequisites: AH 171, AH 134.

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 287 Computer Applications in Healthcare
This course is designed to be a practical, hands-on introduction to the electronic health record (EHR). Students will learn to become proficient in the EHR software before they encounter it in their workplace. The student will gain a thorough knowledge of both the terminology of the EHR systems and the practical uses of similar systems in a healthcare setting.

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	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

Prefix	Number	Course Title	NDSCS
DAST	132	Clinical Training I	3
DAST	132L	Clinical Training I Clinic	2
DAST	133	Clinical Training II	4
DAST	144	Biodental Science	2
DAST	151L	Dental Assisting Simulation Lab I	1
DAST	152l	Dental Assisting Simulation Lab II	1

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 DNB 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.

DAST 151L Dental Assisting Simulation Lab I
This course is designed to provide immersive learning experiences for dental assisting students. Course instruction will allow learners to practice and develop clinical skills by applying theoretical knowledge in hands-on scenarios that mimic various clinical situations that range in complexity and skill level. The course focus will be on developing skills for patient treatment.

DAST 152L Dental Assisting Simulation Lab II
This course is designed to provide immersive learning experiences for dental assisting students. Course instruction will allow learners to practice and develop clinical skills by applying theoretical knowledge in hands-on scenarios that mimic various clinical situations that range in complexity and skill level. The course focus will be on developing skills for patient treatment.

Dental Hygiene

Prefix	Number	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

Prefix	Number	Course Title	NDSCS
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	151L	Pre-Clinic Simulation Lab	1
DHYG	152L	Stimulation Lab I	1
DHYC	153L	Stimulation Lab II	1
DHYG	201	Clinic III	1
DHYG	201L	Clinic III Lab	4
DHYG	202	Clinic IV	1
DHYG	202L	Clinic IV Lab	4
DHYG	205	Dental Pharmacology	2
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	251L	Stimulation Lab III	1
DHYG	252L	Stimulation Lab IV	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, prophy 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 151L Pre-Clinic Simulation Lab
This course is designed to provide immersive learning experiences for dental hygiene students. Course instruction will allow learners to practice and develop clinical skills by applying theoretical knowledge in hands-on scenarios that mimic various clinical situations that range in complexity and skill level. The course focus will be on developing skills for clinical dental hygiene and patient treatment.

DHYG 152L Simulation Lab I
This course is designed to provide immersive learning experiences for dental hygiene students. Course instruction will allow learners to practice and develop clinical skills by applying theoretical knowledge in hands-on scenarios that mimic various clinical situations that range in complexity and skill level. The course focus will be on developing skills for clinical dental hygiene and patient treatment.

DHYG 153L Simulation Lab II
This course is designed to provide immersive learning experiences for dental hygiene students. Course instruction will allow learners to practice and develop clinical skills by applying theoretical knowledge in hands-on scenarios that mimic various clinical situations that range in complexity and skill level. The course focus will be on developing skills for clinical dental hygiene and patient treatment.

DHYG 201 Dental Pharmacology
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 205 Dental Pharmacology
This course provides a study of drugs with an emphasis on those drugs utilized in the practice of dentistry. The course describes the physical properties, major therapeutic classifications of medications, their therapeutic uses, and effects and adverse reactions. Prerequisite: Acceptance into the Dental Hygiene program.

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.

DHYG 251L Simulation Lab III
This course is designed to provide immersive learning experiences for dental hygiene students. Course instruction will allow learners to practice and develop clinical skills by applying theoretical knowledge in hands-on scenarios that mimic various clinical situations that range in complexity and skill level. The course focus will be on developing skills for clinical dental hygiene and patient treatment.

DHYG 252L Simulation Lab IV
This course is designed to provide immersive learning experiences for dental hygiene students. Course instruction will allow learners to practice and develop clinical skills by applying theoretical knowledge in hands-on scenarios that mimic various clinical situations that range in complexity and skill level. The course focus will be on developing skills for clinical dental hygiene and patient treatment.

Health Information Technician

Prefix	Number	Course Title	NDSCS
HIT	176	Introduction to Health Information Technology	4
HIT	180	Pathopharmacology	3
HIT	181	Health Information Systems	4
HIT	184	Basic ICD-9-CM Coding	3
HIT	185	Basic CPT Coding	3
HIT	197	Professional Practice	2
HIT	197C	Practicum	2
HIT	280	Coding Application	2
HIT	281	Legal Aspects of Health Information	3
HIT	282	Medical Statistics	2
HIT	283	Health Information Leadership	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

Prefix	Number	Course Title	NDSCS
HIT	297	Professional Practice II	2

HIT 176 Introduction to Health Information Technology
Introduction to health record practice and the health information profession. Students will study health record, functions, content, documentation, purposes, and users of health information including secondary data sources and data sets. Students will be introduced to legal and ethical issues, including data privacy, confidentiality, and security standards. Students will explore ethical issues in health information management. Students will use virtual lab software applications. Web-based instruction. Prerequisites and/or Corequisites: None. (F, O)

HIT 180 Pathopharmacology
Emphasis on the specific disease processes affecting the human body systems via an integrative approach to specific disease entities, including the study of causes, diagnosis, and treatment of disease. The study of drug actions, including absorption, distribution, metabolism, and excretion of drugs by the body. Emphasis is placed on most commonly prescribed drugs, drug formulary, matching drugs to common conditions and lab findings.

HIT 181 Health Information Systems
A study of health information management (HIM) in various healthcare settings. Includes an overview of each healthcare setting and specific documentation requirements, regulatory issues, reimbursement, information management, quality assessment, utilization management, risk management/legal issues, the role of the HIM professional and future trends related to each setting. Prerequisite: HIT 176. (S, O)

HIT 184 Basic ICD-9-CM Coding
An introduction to the basic coding guidelines using the current coding classification system. Students will practice the application of diagnosis and procedure codes, validating coding accuracy using clinical information found in health records. Current regulations, established guidelines, and ethical principles will be studied and applied to coding cases. Encoder systems and software are used. Web-based instruction. Prerequisites: BOTE 171, BIOL, 220. Corequisite: HIT 180, BIOL 221. (S, O)

HIT 185 Basic CPT Coding
An introduction to the basic coding guidelines of the Current Procedural Terminology (CPT) nomenclature. Students will practice the application of CPT/HCPCS codes, validating coding accuracy using clinical information found in the health record. Current regulations, established guidelines, and ethical principles will be studied and applied to coding cases. Encoder systems, computer assisted coding, and software are used. Web-based instruction. Prerequisites: BOTE 171 or BIOL 220. Corequisites: HIT 180, BIOL 221. (S, O)

HIT 197 Professional Practice I
A virtual professional practice experience that provides reinforcement and application of concepts studied, with hands-on experience and simulations using actual health records and software applications.

HIT 197C Practicum
A virtual professional practice experience emphasizing practice with clinical code assignment using a variety of actual health record types/encounters. Focus on acceptable coding practices, clinical code assignment, and billing methodologies. Emphasis on building speed and accuracy. Encoder technology including coding reference software applications will be used. CCA examination preparation and career exploration will also be covered. Anticipated 40 hours of coding, and additional time spent on related projects and case studies.

HIT 280 Coding Application
Basic coding guidelines and practice the application of diagnosis and procedure codes. Applications of ICD-10-CM/PCS, Current Procedural Terminology (CPT) and CPT/HCPCS codes. Validating coding accuracy using clinical information found in health records. Ethical coding standards will be applied and promoted while adhering to current regulations and established guidelines in code assignment. Encoding technology including coding reference software applications will be used. Prerequisites: HIT 184 & HIT 185

HIT 281 Legal Aspects of Health Information
The study of health law, privacy, security, confidentiality, access, release, and ethical issues. Application of healthcare legal terminology, concepts, and principles to legal documents related to the practice of health information management. Health records and health information software applications are used. Web-based instruction. Prerequisite: HIT 176. (S, O)

HIT 282 Medical Statistics
A study in the basics of statistics and data analytics. Application of descriptive statistics and data analysis in healthcare settings. Advanced data analysis techniques will be explored. Software applications will be used for organization, analysis, and presentation of data. Web-based instruction. Prerequisite: HIT 176. (F, O)

HIT 283 Health Information Leadership
Practical instruction in management principles from a health information management perspective with both theory and practice examples. Leadership roles, including strategic planning, financial management, and information governance will be studies. Teamwork, communication, change management, work design and process improvement will be covered. Staffing, productivity, federal regulations, and laws, training and development, cultural diversity and ethics will be examined. Prerequisite: HIT 176

HIT 284 Healthcare Quality Management
A study of the principles of performance improvement models, utilization management, and risk management in healthcare. Other topics include credentialing, medical staff services, and committees. Laws, accreditation, and regulatory standards will be discussed. Software applications will be used. Web-based instruction. Prerequisite: HIT 176. (F, O)

HIT 285 Reimbursement Methodologies
A study of healthcare payment systems and their effects on the US healthcare delivery system. Functions and history of each major payment system are studied. Compliance strategies, clinical documentation improvement, fraud surveillance measures, and reporting requirements will be discussed. Ethical standards of

practice will be studied. Organization, analysis, and presentation of data using software applications. Web-based instruction. Prerequisites: HIT 176, HIT 184, HIT 185. (S, Su, O)

HIT 286 Intermediate Diagnosis Coding (ICD)
An in-depth study in the application of diagnosis coding to higher-level case scenarios using the current classification systems including diagnosis and procedure coding reviews. Prospective payment systems will be studied. Coding compliance and ethical coding practice will be reinforced. Coding software including encoders and references will be used. Web-based instruction. Prerequisites: HIT 176, HIT 184, HIT 185. (S, Su, O)

HIT 287 Computer Applications in Health Care
Introduction to systems and common software applications and their use in healthcare informatics including data quality, database architecture and design, health information exchange, data storage and retrieval. System evaluation and acquisition and project management will be discussed. Use of PHRs and patient portals will be explored. Web-based instruction. Prerequisite or Corequisite: HIT 176. (F, O)

HIT 288 Intermediate Procedure Coding (CPT and ICD)
An in-depth study in the application of procedure coding to higher-level case scenarios using current classification systems, including diagnosis and procedure coding reviews. Procedure-based payment systems will be studied. Coding compliance and ethical coding practice reinforced. Coding software including encoders and references will be used. Web-based instruction. Prerequisites: HIT 176, HIT 184, HIT 185. (S, Su, O)

HIT 297 Professional Practice II
A virtual and onsite professional practice experience following completion of all program courses. Provides hands-on experience with technical skills in an online environment designed to simulate the activities that would be completed in an HIM setting. Certification examination preparation and career preparation are covered. 40 hours of hands-on experiences at a(an) health information/health information-related site. Pre-requisites: All HIT program courses.

Massage Therapy

Prefix	Number	Course Title	WSC
MASG	101	Introduction to Massage Therapy	2
MASG	120	Swedish Massage I	3
MASG	121	Massage Therapy Clinical I	1.5
MASG	150	Myokinesiology I	3
MASG	220	Swedish Massage II	3
MASG	221	Massage Therapy Clinical II	3
MASG	240	The Business of Massage	2

Prefix	Number	Course Title	WSC
MASG	250	Myokinesiology II	3
MASG	260	Advanced Massage Techniques	3

MASG 101 Introduction to Massage Therapy
An overview of the field of massage therapy. Topics covered include: getting started, life planning, success strategies, boost career longevity, therapeutic communication, career tracks (spa and salon, primary healthcare, group practice, private practice), employment fundamentals, employment kit, terms of employment, state laws, ethics, standards of practice.

MASG 120 Swedish Massage I
The technique of traditional (Swedish) massage is presented. Students will learn the foundations for practice and basic methods. Topics covered include: history of massage; the therapeutic relationship; tools of the trade; career longevity; evidence-informed practice and research literacy; massage therapy and research; body mechanics, client positioning, and draping; massage techniques, mobilizations, and stretches; standard precautions, contraindications, and emergency preparedness; and professional standards. Primary emphasis will be in the application of massage techniques to the back and lower extremities.

MASG 121 Massage Therapy Clinical I
Students continue the application of techniques and theory of Swedish massage. Students will apply these techniques to the remaining regions of the body.

MASG 150 Myokinesiology I
Students will be able to: 1) observe the surface anatomy of the body and confidently explore the skin and fascial structures of the body; 2) palpate the bones and bony landmarks of each body region and explore the connections between them and the soft tissue; 3) palpate each muscle from origin to insertion, feeling and describing its overall shape, edges, and fiber direction(s); 4) palpate the major joint structures, including ligaments and bursae, that are common sites of pain and injury in the region; and 5) palpate landmarks within each body region that identify the location of various endangerment sites.

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

MASG 240 The Business of Massage
Students will learn how the basics of business apply to running your own business. Topics covered include: career options, therapeutic relationships, the business setting, self-care, managing a business, advertising and marketing, and professionalism.

MASG 250 Myokinesiology II
Course will build off from Myokinesiology I. Students will learn the theory and practice the application of the assessment process including muscle testing as it applies to massage therapy. Students will study surface anatomy and identification of landmarks.

MASG 260 Advanced Massage Techniques
Students will learn a variety of techniques that complement Swedish Massage including: trigger points, counterstrain, muscle energy technique, sports massage, PNF, traditional Chinese medicine, essential oils, heats & colds, lymphatic drainage, craniosacral, Ayurveda, and reflexology

Medical Laboratory Sciences

Prefix	Number	Course Title	BSC	MASU	NDSU	UND
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, immunohematology, 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 routing 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	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	Course Title	DCB	NDSCS
NUTR	240	Principles of Nutrition	3	
NUTR	255	Eating Disorders		1

NUTR 240 Principles of Nutrition
Course content includes the science and application of nutrition, nutrition interventions in chronic and acute illness, promoting health and wellness throughout the life span and national nutrition concerns.

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	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

Prefix	Number	Course Title	NDSCS
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 are 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	Course Title	BSC	DCB	MASU	MISU	NDSCS	UND	VCSU	WSC
PHRM	100	Basic Pharmacology for Allied Health					2			
PHRM	123	Pharmacology for Pharmacy Technicians I					2			
PHRM	124	Pharmacology for Pharmacy Technicians II					2			
PHRM	137	Pharmacology For Business								2
PHRM	205	Pharmacology for Nursing					2			
PHRM	215/315	Introduction to Pharmacology	3	3	3	3	2	3	2	3
PRMT	101	Orientation to Pharmacy Practice					1			
PRMT	102	Pharmaceutical Calculations					3			
PRMT	111	Pharmacy Law and Ethics					1			
PRMT	112	Pharmacy Records & Inventory Management					2			
PRMT	216	IV and Sterile Product Preparation					1			
PRMT	216L	IV and Sterile Product Preparation Lab					1			
PRMT	217	Pharmacy Practice					3			
PRMT	217L	Pharmacy Practice Lab					1			
PRMT	221	Chemical/Physical Pharmacy					2			
PRMT	221L	Chemical/Physical Pharmacy Lab					1			
PRMT	231	Pharmacy Internship-Community Based					4			
PRMT	241	Pharmacy Internship Hospital Based					4			

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.

PHRM 123 Pharmacology for Pharmacy Technicians I

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 124 Pharmacology for Pharmacy Technicians II
This course focuses on the basic concepts of pharmacology, including drug uses, sources, major therapeutic classifications of medications and actions of drugs including the common adverse reactions of the major therapeutic classifications. This course covers the cardiovascular system, GI and respiratory systems, endocrine system, and the immune systems. Prerequisites and/or Corequisites: BIOL 115, PRMT 101, PRMT 102, PRMT 111, PHRM 123.

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 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.

PRMT 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.

PRMT 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.

PRMT 111 Pharmacy Law and Ethics
This course will focus on Pharmacy Law, state and federal as well as the ethical concepts important in healthcare. Topics will include FDA from 1938 to the present, CSA and the DEA, and ethical theories and applications including autonomy and confidentiality. Prerequisite: Successful completion of PRMT 101.

PRMT 112 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 PRMT 102.

PRMT 216 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 PRMT 102.

PRMT 216L IV and Sterile Product Preparation Lab
This course will focus on preparing the student technician for the preparation of all IV aseptic products. Including but not limited to IV piggyback medications, large volume IV's, total parenteral nutrition, and chemotherapy agents. The student will have appropriate knowledge, skill, and demonstration of aseptic technique, measuring medications, calculating drug amounts, laminar flow hood cleaning and appropriate professional garb requirements. Prerequisites: PRMT 101, PRMT 102, PRMT 111, PHRM 123 and PHRM 124. Corequisite: PRMT 216.

PRMT 217 Pharmacy 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 PRMT 102.

PRMT 217L Pharmacy Practice Lab
Students will master the skills needed to prepare medication orders and prescription orders for patient use and dispensing. This is a laboratory class; students will utilize computer software for retail and institutional settings as well as manual preparation of pharmaceutical products. Corequisite: PRMT 217. Prerequisites: Successful completion of PRMT 101, PRMT 102, PHRM 123 and PHRM 124.

PRMT 221 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 PRMT 102.

PHRM 221L 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 221. Prerequisite: Successful completion of PRMT 102.

PRMT 231 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.

PRMT 241 Pharmacy Internship 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.

Surgical Technology

Prefix	Number	Course Title	BSC
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	Specialty 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 setup, 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 Specialty 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.