investigation of crime scene evidence. This course discusses traditional photography techniques in addition to the use of digital photography for law enforcement.

**LE 0225** (Demand) 3 hrs. cr. **Patrol Procedures**
Covers numerous areas confronting today’s law enforcement officer during tours of duty and the proper techniques and procedures used in handling each area.

**LE 0230** (Demand) 3 hrs. cr. **Community Policing**
An introduction to and analysis of theories, techniques and programs involving police image and public response. Special attention will be paid to problems of crime prevention, community oriented problem solving policing, police-public interaction and public safety.

**LE 0232** (S) 3 hrs. cr. **Ethics in Criminal Justice**
A comprehensive investigation of ethical problems confronting criminal justice professionals. Focus is placed on the philosophical and practical dilemmas surrounding the modern criminal justice system, in the United States and foreign countries, to include the police, courts and correctional subsystems. Examines various value systems and historical theories as well as promotes discussions of moral and ethical behavior from personal, social and criminal justice perspectives.

**LE 0250** (F) 3 hrs. cr. **Criminal Law**
Criminal law purposes and functions; rights and duties of officers and citizens in relation to local, state and federal laws. The development, application and enforcement of laws.

**LE 0260** (Demand) 3 hrs. cr. **Legal and Technical Aspects of Firearms**
History and development of firearms. The nomenclature of the most commonly used police firearms and the duties and requirements of a range master. The laws concerning firearms acquisitions, ownership and use. Three hours lecture per week. Lab fee and additional lab time arranged.

**LE 0280** (F) 3 hrs. cr. **Report Writing** *(Writing Intensive)*
Introduces various methods and styles of report writing and professional communication in the criminal justice field together with use of basic report forms and follow-up reports. Prerequisites: English 101 and 102.

**LE 0290** (Demand) 3 hrs. cr. **Police Supervision and Management**
Principles of personnel management as applied to law enforcement agencies: evaluation, promotion, discipline, training, employee welfare and problem-solving leadership.

**LE 0298** (Demand) 1-3 hrs. cr. **Topics in Law Enforcement**
Course content varies and is designed to meet current needs and interests in the rapidly changing field of law enforcement. Precise topics to be announced and prerequisites stipulated in course syllabus.

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**DENTAL HYGIENE**

**Health Sciences 143 • 417.625.9302**

**Faculty**
Gerecke – Department Head/Program Director, Kelley, Leslie, Little, Moore, Rogers, Scrivner, Taubel, White

**Mission**
Missouri Southern State University Dental Hygiene program empowers students to become life-long learners and facilitate the development of ethical and competent oral healthcare professionals, who provide patient care to a diverse population utilizing innovative technologies.

**Goals**
**Goal 1:** Provide quality education that reflects best practices in dental hygiene in order to become an ethical licensed oral healthcare professional.

**Competencies**
1.1: Apply a professional code of ethics in all endeavors.
1.2: Adhere to state and federal laws, recommendations, and regulations in the provision of oral health care.
1.3: Use critical thinking skills and comprehensive problem-solving to identify oral health care strategies that promote patient health and wellness.
1.4: Assume responsibility for professional actions and care based on accepted scientific theories, research, and the accepted standard of care.
1.5: Integrate accepted scientific theories and research into educational, preventive, and therapeutic oral health services.
1.6: Apply quality assurance mechanisms to ensure continuous commitment to accepted standards of care, while obtaining the patient’s informed consent based on thorough case presentations.
1.7: Initiate a collaborative approach with all patients when developing individualized care plans that are specialized, comprehensive, culturally sensitive, and acceptable to all parties involved in care planning.
1.8: Initiate consultations and collaborations with all relevant health care providers to facilitate optimal treatments.
1.9: Manage medical emergencies by using professional judgment, providing life support, and utilizing required CPR and any specialized training or knowledge.
1.10: Use patient assessment data, diagnostic technologies, and critical decision making skills to determine a process of comprehensive care.

**Goal 2:** Provide comprehensive dental hygiene services to the communities served by Missouri Southern State University.

**Competencies**
2.1: Promote the values of the dental hygiene profession through service-based activities, positive community affiliations and active involvement in local organizations.
2.2: Communicate effectively with diverse individuals and groups, serving all persons without discrimination by acknowledging an appreciating diversity.
2.3: Assess the oral health needs and services of the community to determine action plans and availability of resources to meet the health care needs.
2.4: Provide screening, referral, and educational services that allow patients to access the resources of the health care system.
2.5: Provide community oral health services in a variety of settings.
2.6: Facilitate patient access to oral health services by influencing individuals or organizations for the provision of oral health care.
Enrollment is limited by selection and applicants are admitted contingent upon a criminal record check, random drug testing, the completion of physical and dental examinations and the rendering of an acceptable health status.

Students are admitted to the dental hygiene program only in the fall of each year. As students in a health care profession, Dental hygiene students may be exposed to bloodborne pathogens and infectious diseases.

Students may complete the Dental Hygiene Associate of Science Degree in Joplin or at one of two distance sites: Rolla, MO at the Rolla Technical Center and in Sikeston, MO on the Southeast Missouri State University Sikeston Campus.

Lecture courses are taught using Interactive Television, Internet or a combination of these formats. Using the ITV format students interact live with instructors and fellow students at all sites. Each site has a clinic for the clinical instruction experience.

In addition to established fees for all college students, the following are minimum costs incurred by dental hygiene students, $1250 to $1500 per academic year for laboratory fees. Various expenses will be incurred for transportation to off campus clinical sites and professional meetings. In addition, approximately $1500 for licensure exams, which will vary depending on state in which license, is desired.

The Associate of Science in dental hygiene requires a minimum of 90 credit hours, including the prerequisite courses. Course grades of ‘C’ or above in dental hygiene and supporting science courses are necessary for retention in the dental hygiene program.

## Associate of Science Degree in Dental Hygiene

### Major Code DH00

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>DH 101</td>
<td>Fundamentals of Dental Hygiene</td>
<td>2</td>
</tr>
<tr>
<td>DH 103</td>
<td>Fundamentals of Dental Hygiene I-Lab</td>
<td>2</td>
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<tr>
<td>DH 105</td>
<td>Fundamentals of Instrumentation**</td>
<td>2</td>
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<tr>
<td>DH 120</td>
<td>Medical Emergencies</td>
<td>1</td>
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<tr>
<td>DH 140</td>
<td>Dental Morphology</td>
<td>1</td>
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<tr>
<td>DH 150</td>
<td>Oral Histology and Embryology</td>
<td>3</td>
</tr>
<tr>
<td>DH 160</td>
<td>Dental Radiology Lecture</td>
<td>2</td>
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<tr>
<td>DH 165</td>
<td>Dental Radiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>DH 190</td>
<td>Clinical Dental Hygiene II**</td>
<td>4</td>
</tr>
<tr>
<td>DH 210</td>
<td>Pain Management.</td>
<td>1</td>
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<tr>
<td>DH 220</td>
<td>Dental Materials.</td>
<td>2</td>
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<tr>
<td>DH 280</td>
<td>Periodontics I</td>
<td>2</td>
</tr>
<tr>
<td>DH 290</td>
<td>Clinical Dental Hygiene II (WI)**</td>
<td>4</td>
</tr>
<tr>
<td>DH 295</td>
<td>Seminar in Dental Hygiene</td>
<td>1</td>
</tr>
<tr>
<td>DH 300</td>
<td>Community Dental Health Education.</td>
<td>3</td>
</tr>
<tr>
<td>DH 301</td>
<td>Community Health Practicum</td>
<td>1</td>
</tr>
<tr>
<td>DH 310</td>
<td>Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>DH 320</td>
<td>Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>DH 340</td>
<td>Oral Pathology</td>
<td>3</td>
</tr>
<tr>
<td>DH 330</td>
<td>Periodontics II</td>
<td>2</td>
</tr>
<tr>
<td>DH 390</td>
<td>Clinical Dental Hygiene III**</td>
<td>4</td>
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<tr>
<td>DH 395</td>
<td>Senior Seminar</td>
<td>1</td>
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<td>BIO 121</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 221</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>5</td>
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<tr>
<td>BIO 231</td>
<td>General &amp; Medical Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 120</td>
<td>Chemistry for Allied Health Sciences</td>
<td>5</td>
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<tr>
<td>SOC 110</td>
<td>Introduction to Sociology**</td>
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</tr>
<tr>
<td>PSY 100</td>
<td>General Psychology**</td>
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</table>

**Total** | 93-94
Course Descriptions

**DH 0101 (F) 2 hrs. cr.**
Fundamentals of Dental Hygiene
This course is an introduction to the Dental Hygiene Process of Care with an emphasis on professionalism, infection control, patient assessment processes and basic instrumental skills. Two hours of lecture per week. Prerequisite: acceptance into the dental hygiene program. Co-requisites: DH 103, DH 140, and DH 150.

**DH 0103 (F) 2 hrs. cr.**
Fundamentals of Dental Hygiene - Lab
This course provides clinical application to the Dental Hygiene Process of Care. The primary emphasis is on professionalism, infection control, patient assessment processes and basic instrumentation skills. The dental hygiene student will have an opportunity to practice these techniques on mannequins and student partners in the laboratory setting. Six hours of lab per week. Prerequisite: acceptance into the dental hygiene program. Co-requisites: DH 101, DH 140 and DH 150.

**DH 0105 (S) 2 hrs. cr.**
Fundamentals of Instrumentation
This course provides clinical application of instrumentation theory and skills to provide comprehensive patient care. The dental hygiene student will have an opportunity to practice instrumentation techniques on mannequins and student partners in the laboratory setting. This course will culminate with a patient experience appointment. Lecture and lab. Prerequisites: DH 101 and DH 103.

**DH 0120 (S) 1 hr. cr.**
Medical Emergencies
In this course students develop an orderly and confident approach to assessing and planning supportive care for all patients. Instruction is provided toward the recognition and management of medical emergencies. One hour of lecture per week.

**DH 0140 (F) 1 hr. cr.**
Dental Morphology
Detailed study of morphology of deciduous and permanent teeth in relation to fossal cusps, grooves, ridges, roots and the relationship of form and function. Occlusion and malocclusion are studied according to their relationship to dental health. A self-instructional program supplemented by one hour lecture per week. Practical aspects of this course will be covered in DH 103 Fundamentals of Dental Hygiene Lab. One hour of lecture per week.

**DH 0150 (F) 3 hrs. cr.**
Oral Histology and Embryology
Study of the gross and microscopic development of the teeth, supportive structures of the teeth and embryology and anatomy of head and neck region. Two hours lecture, three hours lab per week.

**DH 0160 (S) 2 hrs. cr.**
Dental Radiology

**DH 0165 (S) 1 hr. cr.**
Pain Management
Introduction to clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, periodontal assessment, exposing and processing radiographs, presenting patient education, preventive applications and charting the oral cavity. Sixteen hours lab per week, thirty-two hours of lab will be used for clinical application of DH 210. Co-requisites: DH 210. Prerequisites: DH 103, DH 105, and CPR Certification Course.

**DH 0190 (Su) 4 hrs. cr.**
Clinical Dental Hygiene I
Introduction to clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, periodontal assessment, exposing and processing radiographs, presenting patient education, preventive applications and charting the oral cavity. Sixteen hours lab per week, thirty-two hours of lab will be used for clinical application of DH 210. Co-requisites: DH 210. Prerequisites: DH 103, DH 105, and CPR Certification Course.

**DH 0210 (Su) 1 hr. cr.**
Dental Materials
Information about various dental materials including the physical & chemical properties of dental materials and the application and manipulation of materials used in dentistry. Students learn to make alginate impressions, plaster models and manipulate other materials. One hour lecture per week. Co-requisite: DH 190.

**DH 0220 (F) 2 hrs. cr.**
Periodontics I
Periodontics I introduces students to the specialty of dentistry that encompasses the prevention, diagnosis and treatment of diseases affecting the gums and supporting structures of the teeth. Two hours lecture per week. Clinical applications to this course will be implemented in DH 105 and DH 190.
DH 0290  (F)  4 hrs. cr.
Clinical Dental Hygiene II  (Writing Intensive)
Continuation of DH 190 with added responsibilities as skills develop. Multicultural experience is gained through rotations in extended campus facilities. Sixteen hours clinical lab per week (one hour per week MAY be used for content and organizational review). Prerequisites: DH 190.

DH 0295  (F)  1 hr. cr.
Seminar in Dental Hygiene I
This seminar course is offered in conjunction with DH 290, Dental Hygiene Clinic II and is part of the clinical education continuum. Emphasis will be placed on developing advanced clinical techniques, adjunctive dental hygiene treatment and increased case based learning and problem solving in the clinical setting. One hour lecture per week with three-four lab sessions per semester.

DH 0300  (F)  3 hrs. cr.
Community Dental Health Education
Fundamentals of teaching and learning theories. Development of teaching units and lesson plans for various public groups and/or organizations, practical experience in public schools and community groups with experience in providing dental health education to the public. This course is designed to increase student knowledge of concepts of community dentistry and dental epidemiology that is used in population based health care. Students are allowed to critically evaluate biostatistics, scientific literature, dental care delivery and mechanisms for financing dental care. Three hrs. lecture per week.

DH 0301  (S)  1 hr. cr.
Community Dental Health Education Practicum
This course will build upon the basics of DH 300 Community Dental Health Education. Students will apply theories, skills of communication and oral health education to various diverse groups. Through field assessments students will have the opportunity to participate in a variety of community dental health programs and services learning activities which require application of dental public health principles and concepts. One hour lecture per week. Prerequisite: DH 300.

DH 0310  (F,S)  2 hrs. cr.
Nutrition
Nutrition and diet as related to dental health, biochemistry of digestion and the utilization of nutrients. Special emphasis on dietary analysis as part of total health care and the role of the dental hygienist in providing nutritional counseling. Two hours lecture per week. Requirement: dental hygiene students must take course during second semester of program. Two hour lecture per week.

DH 0320  (F)  2 hrs. cr.
Pharmacology
Principles of drug actions and characteristics of major drug groups including sources of drugs, methods of their administration, classification, dosage, therapeutic action and drug interactions. Emphasis on drugs affecting oral health and drugs used in dentistry. Two hours lecture per week.

DH 0340  (Su)  3 hrs. cr.
Oral Pathology
Oral Pathology includes both general and oral pathology. General pathology includes an overview of basic disease processes, inflammation, immunology and wound healing. Oral pathology emphasizes recognition of oral diseases based on clinical signs and symptoms and radiographic manifestations. Treatment planning principles, based on collection of information using a variety of assessment procedures is included. Three hours of lecture per week. Prerequisite: student must have successfully completed the first three semesters of dental hygiene curriculum.

DH 0350  (F)  2 hrs. cr.
Periodontics II
Periodontics II is a continuation of Periodontics I focusing further on the prevention, diagnosis and treatment of diseases affecting the gums and supporting structures of the teeth. Clinical application will be implemented in DH 290 and DH 390. Two hours lecture per week. Prerequisites: DH 280, DH 190 and DH 210.

DH 0390  (S)  4 hrs. cr.
Clinical Dental Hygiene III
Continuation of DH 290: Clinical experience in advanced clinical procedures and discussion of the recognized dental specialties including their relationship to preventive dentistry. Sixteen hours lab week. Prerequisite: DH 290.

DH 0395  (S)  1 hr. cr.
Senior Seminar in Dental Hygiene
This seminar course serves as a means of combining information from all courses in the dental hygiene curriculum and applying content to patient cases and practice management issues. This course is also designed to assist in preparing senior dental hygiene students for the written and clinical examinations required for licensure and entry into the profession. One hour lecture per week.

Faculty  Howe – Head, Bartholet, Koch, Marsh

Mission
The Department of Engineering Technology (ET) provides programs designed to develop leaders in industry and society as a whole by providing a quality education to students that is application-oriented and connected to the needs of regional and global businesses.

Department Objectives
The Engineering Technology department at Missouri Southern will produce graduates who
1. have an appropriate mastery of the knowledge, techniques, skills and modern tools of engineering technology.
2. have the ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering and technology.
3. are able to identify and analyze problems and design effective engineering technology based solutions.
4. contribute professionally by functioning effectively on teams.
5. communicate effectively with professionals and lay audiences.
6. have an understanding for the discipline of engineering technology and its role in a societal and global context.

Curricular Options
The department offers a variety of instructional programs. These programs are:
- Industrial Engineering Technology (IET), BS
- Industrial Technology Education (ITE), BS
- Drafting and Design Engineering Technology (DDET)*, AS
- Manufacturing Engineering Technology (MET), AS