

DENTAL SERVICES ADMINISTRATION (DSA)

DSA 3013. Machine Learning for DSA. 3 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 3023. Big Data Engineering. 3 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 4003. Applied Data Science. 3 Credit Hours.

Course Type: Lecture

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DSA 4413. Algorithm Analysis. 3 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 4513. Database Management Systems. 3 Credit Hours.

Course Type: Lecture

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DSA 5001. Data Analytics and Media. 1 Credit Hour.

Course Type: Lecture

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DSA 5005. Computing Structures. 5 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 5011. Introduction to R. 1 Credit Hour.

Course Type: Lecture

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DSA 5013. Fund of Engr Stat Analysis. 3 Credit Hours.

Course Type: Lecture

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DSA 5021. DSA Appd to Meteorology Data. 1 Credit Hour.

Course Type: Lecture

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DSA 5031. Econometrics for DSA. 1 Credit Hour.

Course Type: Lecture

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DSA 5041. Advanced R. 1 Credit Hour.

Course Type: Lecture

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DSA 5051. Data Visualization. 1 Credit Hour.

Course Type: Lecture

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DSA 5061. Python for DSA. 1 Credit Hour.

Course Type: Lecture

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DSA 5103. Intelligent Data Analytics. 3 Credit Hours.

Course Type: Lecture

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DSA 5113. Adv Analytics & Metaheuristics. 3 Credit Hours.

Course Type: Lecture

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DSA 5133. Energy Analytics. 3 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 5203. Time Series Analysis. 3 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 5303. Financial Engr Analytics. 3 Credit Hours.

Course Type: Lecture

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DSA 5403. Bayesian Statistics. 3 Credit Hours.

Course Type: Lecture

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DSA 5503. Healthcare Analytics. 3 Credit Hours.

Course Type: Lecture

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DSA 5703. Machine Learning Practice. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 5900. Professional Practice. 4 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 5970. Special Topics/Seminar. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 5980. Research for Master's Thesis. 9 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 5990. Independent Study. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 6980. Research Doctoral Dissertation. 16 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

DSA 7592. Behavioral Sciences I. 2 Credit Hours.

Prerequisites: None This course is designed to teach basic communication skill to health care providers including the art of listening, non-verbal communication, body language, hidden agendas, transactional analysis, interviewing patients, emotional competence, empathy, motivating patients, assertiveness training, conflict resolution and developing professional writing and speaking skills.

Course Type: Lecture**DSA 7791. Introduction to Ethics. 1 Credit Hour.**

Prerequisites: None Introduction to Ethics provides first year dental students with foundational concepts of ethics and professionalism. Topics covered include the history of dentistry, legal and regulatory issues, and the core values of the ADA Code of Ethics.

Course Type: Lecture**DSA 7891. Community Dentistry. 1 Credit Hour.**

Prerequisites: None Community Dentistry introduces first year dental students to concepts of community health, health disparities, and oral health care delivery systems. Student activities include lectures, assigned readings, developing a community oral health profile, and developing a presentation targeting a specific oral health issue.

Course Type: Lecture**DSA 7991. Evidence-based Dentistry. 1 Credit Hour.**

Prerequisites: None Evidence-based Dentistry introduces first year dental students to the process of accessing and analyzing sources of scientific information and how to apply those in clinical practice. Student activities include lectures, assigned readings, reviewing journal articles, and developing and presenting a brief research protocol.

Course Type: Lecture**DSA 8105. Clinical Record Keeping and Patient Management I. 0.5 Credit Hours.**

Prerequisites: Students must have successfully completed the academic, preclinical, and clinic orientation sessions for dental years 1 and 2 and must be a student in good standing promoted to the third year. Ongoing assessment of the clinical protocol and practice and patient management based on the guidelines and directives issued by the clinical teaching departments and the director of clinics. It involves an assessment of the daily implementation and adherence to the guidelines of the "Protocol for Clinic Practice Manual."

Course Type: Independent Study**DSA 8291. Introduction to Practice Management. 1 Credit Hour.**

Prerequisites: By Permission Basic and foundational principles for running a successful dental practice, including location, hiring the right team members, operational systems, and tracking metrics for practice growth and sustainable financial success. (Summer IV)

Course Type: Lecture**DSA 8305. Clinical Record Keeping And Patient Management II. 0.5 Credit Hours.**

Prerequisites: Students must have successfully complete the Fall and Spring semesters of the third year. Ongoing assessment of the clinical protocol and practice and patient management based on the guidelines and directives issued by the clinical teaching departments and the director of clinics. It involves an assessment of the daily implementation and adherence to the guidelines of the "Protocol for Clinical Practice Manual."

Course Type: Independent Study**DSA 8592. Advanced Practice Management. 2 Credit Hours.**

Prerequisites: By permission. Advanced practice management principles for running a successful dental practice. Students will learn to identify appropriate and available resources for effective practice management operations while prioritizing systems for maximum efficiency, organization, stress control, and sustainable financial success. (Fall IV)

Course Type: Lecture**DSA 8691. Psychological Basis For Dental Practice. 1 Credit Hour.**

Prerequisites: None. Utilizing principles of psychodynamics to understand and motivate patients while minimizing patient fear and anxiety through effective communication and integrating psychology and dentistry to employ sound management principles in a dental practice.

Course Type: Lecture**DSA 8990. Special Studies. 0-6 Credit Hours.****Prerequisites:** None Special topics**Course Type:** Lecture**DSA 9105. Clinical Record Keeping and Patient Management III. 0.5 Credit Hours.**

Prerequisites: Students must have successfully completed the third year and be promoted to the fourth year. Ongoing assessment of the clinical protocol and practice and patient management based on the guidelines and directives issued by the clinical teaching departments and the director of clinics. It involves an assessment of the daily implementation and adherence to the guidelines of the "Protocol for Clinic Practice Manual."

Course Type: Independent Study

DSA 9291. Ethical and Legal Aspects of Dentistry. 1 Credit Hour.

Prerequisites: None. Review of principles of practice administration and ethical/legal obligations of the dentist, including issues of 3rd party government and/or private payors, OSHA requirements, and Code of Ethics.

Course Type: Lecture

DSA 9345. Senior Externship. 0-4.5 Credit Hours.

Prerequisites: None May be repeated; maximum credit 4.5 hours.

Yearlong course This course is designed to provide extramural education and service delivery experiences to better prepare students for the practice of dentistry. The course also provides students an opportunity to develop appreciation of the patient as an individual, understanding of the patient's community, and increased awareness of dental services delivery systems.

Course Type: Practicum

DSA 9505. Clinical Record Keeping and Patient Management IV. 0.5 Credit Hours.

Prerequisites: Students must have successfully completed the third year Fall semester. Ongoing assessment of the clinical protocol and practice and patient management based on the guidelines and directives issued by the clinical teaching departments and the director of clinics. It involves an assessment of the daily implementation and adherence to the guidelines of the "Protocol for Clinic Practice Manual."

Course Type: Independent Study