

## Intro to Speech Recognition AH 235

**Credits:** 2 credits

**Course Description:** This 100% online course gives the student the opportunity for hands-on practice with speech recognition editing using authentic speech recognized drafts from actual physicians.

Content areas include:

- History and development of speech recognition technology;
- Basic scientific terms relating to speech recognition technology;
- Differences between front-end and back-end speech recognition technology;
- Productivity and quality issues;
- Implications of speech recognition technology on the future of the MT industry.

**Instructor Information:**

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**Course Prerequisites:**

- Medical Terminology (AH 171)
- Medical Disorders (AH 134)
- Introduction to Pharmacology (PHRM 215)
- Medical Transcription I (AH 222)
- Medical Transcription II (AH 223)
- Proficiency in grammar, punctuation, and spelling.
- Keyboarding skills of 50 words per minute.
- Basic computer skills.

**Course Objectives:**

Upon completion of this course, students will be able to:

1. Explain the history and development of speech recognition technology.
2. Define common scientific terms relevant to speech recognition technology.
3. Describe the qualities of dictated voice files that contribute to productivity.
4. Describe the impact of standardization on speech recognition technology.
5. Differentiate between front-end and back-end speech recognition technology and explain the impact to productivity, quality, and turn-around time issues pertaining to both.
6. Describe the role of speech recognition technology in the EHR and evaluate the implications of speech recognition technology on the future of healthcare documentation.
7. Diagram the complete document cycle.
8. Explain the critical role of the medical transcription editor in successful implementation of speech recognition technology.
9. Assess correct ergonomic habits and apply them to the SRT worksite.
10. Identify and describe appropriate use of text expansion products, spell-checkers, and industry resources.
11. Recognize the importance of learning and demonstrate proper use of available keyboard shortcuts

and navigational keys.

12. Demonstrate editing concepts specific to SRT including correct use and spelling of common homophones and sound a-likes.

13. Describe the reasoning for consistency in SRT editing.

14. Differentiate between necessary editing and over-editing; define the need for balance between perfection and quality.

15. Identify, edit, or flag common drug sound a-likes; recognize draft errors in dosing.

16. Recognize, edit, or flag potential speech engine errors in laboratory results.

17. Demonstrate and explain the necessity for maintaining vigilance and conscientiousness in SRT editing.

**Textbook:**

- Beginning Medical transcription CD from AH 223 is required.
- USB foot pedal required; refer to computer equipment link for specifics. The USB foot pedal can be purchased through the DCB Bookstore and is one you have used in previous and future DCB transcription courses.

**Course Requirements:**

The student will be expected to complete all weekly assignments and quizzes.

**Course Outline:**

This 8-week course consists of weekly assignments and quizzes. The student will also be completing authentic physician dictation speech recognition editing techniques.

All quizzes are open-book, open-note and do not have a time limit. Use your resources to locate the answer. ALL weekly quizzes and transcription assignments are due according to the Moodle calendar. All late assignments without instructor approval will be awarded half credit. Quizzes not completed by the weekly due date will not be allowed to be completed without instructor approval.

Final letter grades will be based on the following grading scale with a total of 1086 points possible for this course:

1020 - 1086 - A (94%)

956 - 1019 - B (88%)

890 to 955 - C (82%)

825 to 889 - D (76%)

824 and below - FAIL

**General Education Goals/Objectives:**

- Critical thinking in the completion of transcription assignments (Gen Ed #2)
- Knowledge and application of transcription technology (Gen Ed #3)
- ESL ( English as Second Language) dictation experience (Gen Ed #8)

**Relationship to Campus Theme:** The student will use up-to-date technology as it applies to medical transcription of ESL providers. These assignments will require problem solving, application of previous course materials, and interaction with other students.

**Classroom Policies:** Attendance in the online course, completion of assignments and quizzes, and respect for the instructor and other students.

**Academic Integrity:** All students are expected to adhere to the highest standards of academic integrity and honesty. Dishonesty in the online classroom assignments, quizzes, and exams is a serious offense and is subject to disciplinary action by the instructor and college administration. For more information, refer to the Student Handbook.

**Disabilities and Special Needs:** If you have a disability for which you need accommodations, you are encouraged to contact your instructor and the Learning Center (228-5479 or 1-888-918-5623) to request disability support services as early as possible during the beginning of the semester.