

NJMS Distinction in Artificial Intelligence in Medicine

(Updated December 23, 2025)

Description

The Distinction in Artificial Intelligence (AI) Program offers a unique opportunity to NJMS medical students to learn about AI in healthcare, engage with AI faculty, and demonstrate AI research skills during their medical school training. As AI methodologies rapidly expand within the healthcare field, this distinction program will provide students with a strong foundation in linking AI to clinical care and research, including elements of biomedical informatics and computing tools that support AI in medicine. The program is designed for students who plan a career in Academic Medicine or in fields where AI is integrated into practice. Students with prior experience in statistics, machine learning, programming, and/or AI are encouraged to apply.

Distinction in Artificial Intelligence in Medicine

Co-Directors:

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Other faculty with training/experience in AI will participate in instruction, training, and mentorship.

Program Requirements

The following are required for successful completion of the Distinction in AI program:

1. Completion of the NJACTs three-course badge certificate in clinical informatics: <https://njacts.rbhs.rutgers.edu/education-training/workforce-development/certificate-in-clinical-informatics-and-data-science>. Including the completion of Course/Badge 1 before application to the program (M1), Course/Badge 2 before formal placement in a research lab (M2), and Course/Badge 3 by the end of M3.
2. Attendance at all Virtual AI seminars (attendance will be recorded). If you can't attend a seminar "in person," please email Dr. Johnson, and you will be provided a link to the recording.
3. Participation in the yearly FutureMed program is required each year: <https://future-med.renderforestsites.com>.

4. AI Capstone: students will develop an AI research project within the field of artificial intelligence in medicine. This includes the selection of a research advisor/lab (M2), identification of a research project (M2), and the conduct of research (M3-M4) culminating in the submission of a manuscript (ideally by March M4). M4 Students will enroll in a one-month Independent Study to complete/finalize their capstone project.
5. Students will be required to present their research progress at the annual Distinction in AI symposium (May of each year). As an M4, they will also present their work at the NJMS Distinction Symposium.
6. Students will be expected to meet biannually with the Program Directors. These meetings will typically occur at the end of the Fall and Spring Semesters. The Spring meeting will also usually include the student's mentor.

Timeline:

The following outlines the required/ recommended elements of the Distinction in AI program.

| Timeline of Requirements for Distinction in AI in Medicine | | | | | |
|---|-----------|-----------|-----------|-----------|-------------------------------|
| Year | M1 | M2 | M3 | M4 | |
| Application to Program (May) | | | | | |
| Attend Monthly Virtual AI Seminars | | | | | |
| Participate in FutureMed | | | | | |
| Clinical Informatics Course 1 | | | | | Required Activities |
| Clinical Informatics Course 2 | | | | | |
| Clinical Informatics Course 3 | | | | | Recommended Activities |
| Selection of Research Mentor/Lab | | | | | |
| Identify Research Problem and Hypothesis | | | | | |
| Conduct Research | | | | | |
| Present in Distinction in AI Symposium (May) | | | | | |
| Submit manuscript for publication | | | | | |

Note: With the approval from the program directors, the requirements can be modified as appropriate (i.e., courses can be waived for students with significant computational background).