

A - New Course Proposal : Entry # 3699**DEAN Decision**

Approved

Date

09/18/2026

Is this course intracollegiate or intercollegiate?

Intracollegiate

SCHOOL EPC Decision

Approved

Date

10/14/2026

Begin Form**Today's Date**

09/16/2026

Your Name:

Michael Oudshoorn

Your Email:moudshoo@highpoint.edu**Are you a Department Chair?**

Yes

By checking below, I certify that my department chair has seen and approved the new course that I am proposing.

Yes

Please select the appropriate school overseeing this proposal:

Engineering

When should this proposal take effect?

Fall 2027

Information for the Registrar**Choose the department designator from the list below.**

AAI

A - New Course Proposal : Entry # 3699**Proposed Course Number?**

2000

Is this course cross listed?

No

Does this course replace a current course?

No

What is the title of the new course?

Strategic AI Productivity

Write the catalog description of your proposed course:

This course moves from tool fluency to strategic integration, teaching students to design, automate, and measure AI-augmented workflows across research, writing, analysis, and career contexts. Students use retrieval-augmented generation (RAG) with their own documents, build no-code conditional automations, and learn to select and configure models — including downloading and adjusting models on the campus GPU server — for a given task. The course emphasizes critical evaluation of AI-assisted output and culminates in a personalized, measurable AI productivity system. No programming is required; automation logic is limited to conditional (if-then-else) rules built through interfaces.

How many credit hours will this course be?

4

How will the course be graded?

Letter grade

Please select the course repeat option for this course:

Not repeatable for credit

What is the offering cycle for this course?

Fall semester

Does your course have any prerequisites?

Yes

Please list all prerequisites this course requires:

AAI-1200 AI Tools and Prompt Engineering

Is this new course being proposed because of a new or revised major or minor proposal?

Minor in Applied Artificial Intelligence - Michael Oudshoorn

Gen Ed and Academic Programs**Is this course part of Gen Ed?**

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- No

Does this course count towards a major or a minor?

Yes

Please list the Major / Minor and if it is Required or Elective

Minor in Applied Artificial Intelligence - required.

Is this course part of an academic program?

- This course does not fulfill academic program requirements

Does this course include any community engagement?

No

Does this course participate in the GoGlobal Program?

No

Information for Curriculum Review**Rationale and evidence for new course's consistency with departmental mission:**

AAI-2000: Strategic AI Productivity is consistent with the mission of the Department of Computer Science and the Webb School of Engineering by helping students apply computing and artificial intelligence technologies to solve authentic problems, improve productivity, and support informed decision-making across a wide range of disciplines. The course moves beyond basic AI literacy and tool usage to focus on designing, evaluating, and implementing AI-augmented workflows that enhance human performance while maintaining appropriate human oversight and accountability. The course directly supports the department's commitment to preparing graduates who can leverage technology strategically to address complex professional challenges.

The need for AAI-2000 was identified through the growing impact of artificial intelligence on workplace productivity, information management, research, communication, and business processes. Organizations across virtually every sector are integrating AI into daily operations and increasingly expect graduates to understand how AI can be incorporated into workflows, how to evaluate AI-generated outputs, and how to measure the effectiveness of AI-assisted processes. While many students are becoming familiar with AI tools, there is a significant need for education that focuses on workflow redesign, retrieval-augmented generation (RAG), no-code automation, model selection, and evidence-based evaluation of AI-assisted work. AAI-2000 addresses this need by providing students with practical experiences that demonstrate how AI can be used responsibly to improve quality, efficiency, and decision making without requiring programming expertise.

The course was developed following a review of emerging best practices in human-AI collaboration, workflow automation, productivity enhancement, and AI-enabled knowledge management. Key influences include contemporary scholarship on AI-assisted work, industry adoption of retrieval-augmented generation and AI agents, human-centered AI guidance from Google People + AI resources, and instructional materials focused on AI productivity and workflow redesign. The proposed curriculum reflects current trends in industry and higher education that emphasize augmentation rather than replacement of human expertise, combining AI capabilities with critical thinking, verification, judgment, and ethical considerations.

AAI-2000 also builds upon institutional investments in Microsoft Copilot and the university's GPU-based AI infrastructure. Through activities involving retrieval-augmented generation, no-code automation, model configuration, productivity measurement, and workflow analysis, students gain practical experience applying AI technologies in ways that are relevant to their own majors and

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career goals. The course supports the Applied AI Minor's objective of enabling students to redesign academic and professional workflows while preserving meaningful human oversight and accountability. By teaching students to critically evaluate outcomes, quantify productivity improvements, and select appropriate AI tools for specific tasks, AAI-2000 prepares graduates to become effective and responsible users of AI within their future professions.

List all student learning outcomes for this course.

Students completing AAI-2000 will be able to:

1. Design a discipline-specific, multi-step AI-augmented workflow, documented as a process diagram (workflow-design project).
2. Configure and query a retrieval-augmented generation (RAG) system over a personal document set, evaluating answer relevance and privacy tradeoffs (RAG lab report).
3. Build a working no-code automation containing at least one conditional (if-then-else) branch that connects two or more tools/steps (automation demonstration and write-up).
4. Select and justify an appropriate model/configuration — for example, Copilot vs. a specific downloaded model on the GPU server, or a particular temperature/context setting — for a given task (configuration-justification memo).
5. Fact-check and quantify error rates in AI-assisted output across a defined task set (evaluation report).
6. Measure and report a before/after productivity change (time, quality, or output metric) resulting from an AI-augmented workflow redesign (productivity-audit assignment).
7. Produce a personal AI-workflow system (portfolio) integrating the above skills, tailored to the student's major (final project).

List any units or content areas that will be required for all sections of this course.

N/A

List any assignments, tests, or other assessments that will be required for all sections of this course.

N/A

List any readings or other materials that will be required for all sections of this course.

N/A

List any course policies that will be required for all sections of this course.

N/A

If you would like to specify how requirements for contact hours must be met for all sections of this course, please indicate below. (e.g., if any experiential learning activities will replace seat time)

typical 200 minutes/week meeting time

Sample Syllabus

- [AAI2000-Syllabus.pdf](#)

Additional Documents

- [AAI2000-details.pdf](#)