Special Meeting of the
Oregon Tech Board of Trustees
Executive Committee
Virtually via Teams
Monday, December 15, 2025
9:00 AM – 10:00 AM

Executive Committee
Agenda

1. **Call to Order/Roll/Declaration of a Quorum** (9:00 AM) *Chair John Davis*

2. **Action Items:**

   2.1. **Institutional Goals** (9:05 AM) (15 min) *Chair Davis and President Nagi Naganathan*

   2.2. **New Degree Program: Bachelor of Science in Artificial Intelligence** (9:20 AM) (35 min) *Dr. Praveen Guraja, Assistant Professor of Applied Computing & Geomatics, Dr. Neslihan Alp, Dean of ETM, and Dr. Hesham El-Rewini, Provost and Sr. VP of Academic Affairs & SEM*

3. **Other Business/New Business** (9:55AM) (5min) *Chair Davis*

4. **Adjournment** (10:00 AM)

All times are approximate.

Proposed Institutional Goals for AY2025-26

December 15, 2025

At the October 2025 Board of Trustees meeting, the Board and various stakeholders provided feedback to the President, Chair, and Vice Chair. In response, the President, Sr. Administration, and Chair & Vice Chair recommend the Board adopt the following revised goals for 2025-2026.

1. Develop the new Strategic Plan and present it for review and approval at the April 2026 Board of Trustees meeting.

2. Grow overall enrollment in Fall 2026 by 3%-5% over the Fall 2025 census enrolled students, excluding dual credit.

3. Increase the retention rate of first-year, full-time students by 2% from the current level of 75%.

4. Increase research grant submissions (+25%) from the current 3-year average of 62 per year.

5. Create a sustainable study-abroad program with at least five (5) trips in 2026, with an objective to create tangible and scalable global experiences for at least 60 students by calendar year 2026 Summer term.

6. Demonstrate implementation of AI competencies in at least 10 courses during the AY2025-26 and launch a Bachelors of Artificial Intelligence degree by Fall 2026.

7. Raise $5.5 million toward the annual campaign and capital campaign.

8. Develop a new marketing and branding campaign for Oregon Tech statewide.

9. Complete the feasibility study and business plan for a new medical school by December 31, 2026.

10. In concert with the Provost's office and the Faculty Senate, develop and implement a Faculty Retention program at the departmental and college levels during the 2025-2026 AY.

Bachelor of Science in Artificial Intelligence

Department of Applied Computing & Geomatics
College of Engineering, Technology, and Management

Presented to the Board of Trustees Executive Committee

Dr. Praveen Kumar Guraja
Assistant Professor
Applied Computing & Geomatics

Dr. Neslihan Alp
Dean of College of Engineering,
Technology, & Management

December 15, 2025

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National AI Momentum & Oregon Tech's Mission

Federal AI Policy Shift
"Human Flourishing" focus: national security, workforce prosperity, well-being, ethical technology, directly aligned with Oregon Tech's mission.

National AI Standard
Draft AI Executive Order establishes sector-specific Policy Councils and National AI Standard, signaling long-term commitment to responsible AI.

Federal-State Partnership
New AI Working Group elevates higher-ed institutions as key partners in shaping AI policy and workforce preparation.

September 18, 2025: **Congresswoman Andrea Salinas** and Congressman Vince Fong introduced H.R. 5351, the National Science Foundation Artificial Intelligence Education Act of 2025 (NSF AI Education Act), a bold and strategic bill designed to strengthen America's leadership in artificial intelligence by addressing critical gaps in education, research, and workforce development.

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Career Pathways

AI Engineer

Design and AI systems for diverse applications across industries

Data Scientist

Analyze complex datasets and develop data-driven insights to inform business strategy and decision-making

AI Systems Analyst

Evaluate and optimize AI system performance, ensuring effective integration with existing infrastructure

Business Intelligence Analyst

Transform data into actionable business insights using AI-powered analytics and visualization tools

AI Software Developer

Create innovative AI-enabled applications and software solutions for emerging technology challenges

Projected Median pay is $100,000+

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Evidence of AI Workforce Demand in Oregon Industries

Intel
AI Research Scientist roles in artificial intelligence, machine learning, and deep learning within Intel Labs' Visual-AI Systems Research group

HP Inc.
Senior AI Software Engineer and **Edge AI System Engineer** requiring ML frameworks: TensorFlow, PyTorch, advanced AI model development

Nike
Machine Learning Engineer and **Senior AI/ML Engineer** for advanced analytics, ML solutions, enterprise-scale AI applications

Daimler Truck
Autonomous-ready truck platform development with strategic investments in **AI, autonomy, and digitalization**

Providence Health
Digital Innovation Group and AI governance initiatives deploying **machine learning and predictive analytics** in healthcare

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Positioned to be Oregon's First Undergraduate AI Degree

To the best of our knowledge there is no other public university in Oregon currently offers an undergraduate Bachelor of Science in Artificial Intelligence (AI), positioning Oregon Tech to become the state's first and only institution delivering a fully applied AI degree.

Key Employers
Intel, HP, Nike, Daimler Truck North America, and Providence Health & Services have expressed a strong interest in graduates trained in AI, data systems, and automation

Workforce Pipeline
These industries collectively anchor Oregon's high-tech corridor and require a steady pipeline of professionals who can integrate AI safely and effectively

Statewide Impact
Fills a strategic higher-education gap and supports Future Ready Oregon workforce initiatives

The BS in AI advances this mission by preparing graduates to design and manage AI systems that enhance human capability, strengthen communities, and improve quality of life across Oregon and beyond.

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Timeline of AI Taskforce Creation at Oregon Tech

Spring '25

Commissioned by Leadership
Provost El-Rewini launched an AI Taskforce in April 2025, chaired by Dean Alp.

Spring '25 to Fall '25

Cross-College Collaborations
25 faculty & staff from both colleges representing multiple departments across campuses participated actively.

Industry Alignment
External partners ensured alignment with workforce needs, applied research, and emerging AI practices.

Intensive Development
The feedback from weekly meetings helped design the AI program aligning with Oregon Tech's polytechnic strengths.

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4-Year Student Journey – 180 Quarter Credit Hours

Year 1: Foundations
Build your base with AI literacy, composition, public speaking, PC hardware/software, precalculus, and C++ programming fundamentals

Year 2: Data & Systems
Master data science, statistical methods, databases, systems admin, and cybersecurity alongside humanities and social science core

Year 3: Advanced AI
Dive into Natural Language Processing, Computer Vision, Ethics & Philosophy for AI, business intelligence, interaction design, cybersecurity labs, and technical documentation

Year 4: Capstone
Complete a two-term AI Capstone, explore AI & Global Collaboration, cloud computing, big data, professional seminar, and technical electives

Hands-on learning at Oregon Tech:
Project-based coursework integrated throughout each year of the program, providing students with real-world AI development experience and portfolio-ready projects.

Accessible for students in Klamath Falls, Portland Metro, and Online.

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Oregon Tech - Google Cloud AI & Cloud Partnership

First in Oregon
Oregon Tech is the first public university in Oregon to help embed Google Cloud's AI and high-performance computing infrastructure directly into research, teaching, and innovation.

Advanced Infrastructure
Access to GPUs, AI models, and specialized datasets supporting life sciences, climate, robotics, chip design, and applied computing.

Accelerated Research
Strengthens faculty and student research, expands computing capacity, enables AI-driven tools for grant development and workflows.

Career Readiness
Industry-aligned, hands-on AI education preparing students for high-demand AI and cloud careers across the various business sectors in Oregon.

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Faculty, Staff, & Resources

Faculty Team
- 5 current full-time Applied Computing faculty
- Faculty from other departments
- 2 new full-time faculty in the next 5 years

Dedicated Support
- IT support for AI and robotics equipment
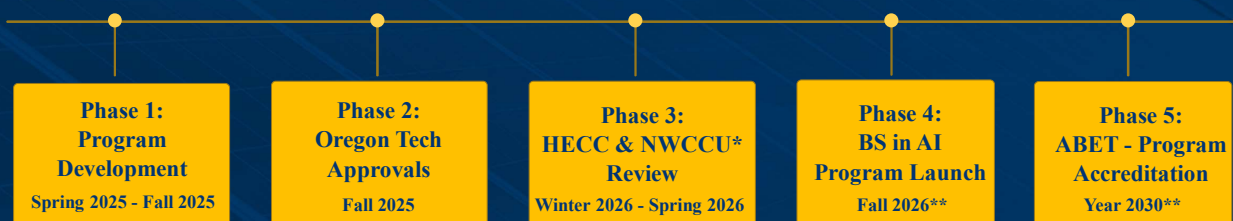- Professional Advisors for program coordination

Excellent Facilities
- High-performance computing servers
- Access to OMIC R&D facilities
- Research network connectivity through Link Oregon
- Digital holdings including ACM & IEEE Xplore databases

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B.S. in Artificial Intelligence Degree Program Timeline

Oregon Tech's B.S. in Artificial Intelligence positions the university among the first in the State of Oregon to build a future-ready workforce capable of advancing AI technologies responsibly and ethically.

Phase 1: Program Development	Phase 2: Oregon Tech Approvals	Phase 3: HECC & NWCCU* Review	Phase 4: BS in AI Program Launch	Phase 5: ABET - Program Accreditation
Spring 2025 - Fall 2025	Fall 2025	Winter 2026 - Spring 2026	Fall 2026**	Year 2030**

**Tentative

*HECC: Higher Education Coordinating Commission
NWCCU: Northwest Commission on Colleges and Universities

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Proforma

	FY 27	FY 28	FY 29	FY 30	FY 31
New Tuition Revenue*	$106,228	$209,175	$298,316	$392,617	$492,308
Additional Expenses					
Addl. Instructional Expenses including two new faculty	$0	$165,628	$169,390	$336,992	$340,983
Addl. Operating Expenses (S&S, Travel, Equipment, etc.)	$21,000	$36,750	$47,750	$54,500	$59,500
Total Additional Expenses	$21,000	$199,878	$206,140	$380,492	$389,483
Net	$85,228	$9,297	$92,176	$12,125	$102,825
Enrollment Projection*					
New FTE Student Enrollment	8	15	20	25	30
New Student Credit Hours	306	585	810	1,035	1,260

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Questions?

Thank you for your consideration and support of the
Bachelor of Science in Artificial Intelligence Degree program.

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Bachelor of Science in Artificial Intelligence (BS-AI)

Undergraduate New Program Map • Oregon Institute of Technology • Total: 180 quarter credits

Applied Computing Track - 4-Year Rotation (Freshman Fall → Senior Spring)

Year	Term	Courses (with credits)	Term Total
Freshman	Fall	ACAD 110 ETM Freshman Seminar (1) AI 101 AI for Everyone (3) WRI 121Z Composition I (4) COM 111Z Public Speaking (4) MIS 145 Intro to PC Hardware/Software (4)	16
	Winter	MATH 111Z Precalculus I (4) CST 116 C++ Programming I (4) AI 205 Applied AI Fundamentals (3) WRI 227Z Technical Report Writing (4)	15
	Spring	CST 126 C++ Programming II (4) MIS 206 Intro to MIS (3) MIS 240 Linux Fundamentals (4) MIS 251 Networking Fundamentals (4)	15
Sophomore	Fall	DSAI 201 Intro to Data Science (4) MATH 361 Statistical Methods I (4) MIS 275 Intro to Relational Databases (4) CYB 201 Cyber Security Fundamentals (3)	15
	Winter	SPE 321 Small Group/Team Communication (3) Social Science Elective (4) Humanities Elective (3) MIS 273 Systems Administration I (4)	14
	Spring	DSAI 211 Data Science Methods (4) HUM 125 Intro to Tech, Society & Values (3)	15

Year	Term	Courses (with credits)	Term Total
		MIS 341 Relational database Design I (4) MIS 285 Python Programming (4)	
Junior	Fall	AI 305 Natural Language Processing (4) PHIL 355 Ethics & Philosophy for AI (3) MIS 344 Business Intelligence (3) PWR 220 Interaction design (3) CYB 301 Hackers Tools & Techniques (4)	17
	Winter	BUS 327 AI Prototyping & Entrepreneurship (4) WRI 350 Documentation Development (3) Advisor approved Math/Science elective (4) CYB 302 System Defense & Incident Reporting (4)	15
	Spring	AI 405 Computer Vision (4) PWR 325 Usability Testing (3) Advisor approved Math/Science elective (4) CYB 303 Security Operations & Analysis (4)	15
Senior	Fall	AI 491 Capstone I (3) MGT 465 AI & Global Collaboration (4) Advisor approved Math/Science elective (4) MIS 365 Cloud Computing (4)	15
	Winter	AI 492 Capstone II (3) Social Science Elective (4) CYB 411 Managing Risk in Info Systems (3) MIS 441 Big Data (4)	14
	Spring	AI 493 AI Professional Seminar (1) Advisor Approved Electives (9) Social Science Elective (4)	14
Total Credits			**180**