

**UMBC**

**Plans**



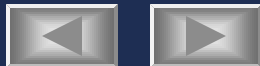
**Presentation to the Board of  
Regents Technology Committee  
November 10, 1999**



# UMBC Is a Leader in IT

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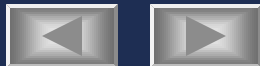
- **UMBC is first in undergraduate computer science production (NSF '97) and produces 39% of IT graduates in MD (DBED)**
- **A leader in integration of library services with IT**
- **Actively infusing technology into teaching and learning**
- **A leader in web enabled support services**
- **A wide range of research centers providing basic and applied research in IT**



# Recent Successes

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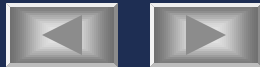
- Among first 50 schools on NSF vBNS
- Member of Internet2
- Listed in 1999 Yahoo Wired 100 (#75)
- Developed myUMBC portal
- Two full degree programs offered online
- Established center for IT certification training



# IT Planning Process

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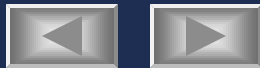
- **Completed major tasks from 1994 IT plan**
- **Led by campus IT Steering committee**
  - Develops overarching vision for IT services
  - Currently updating campus IT plan
  - Chair works with CFO and CAO on budget priorities for IT



# Technology Catalysts

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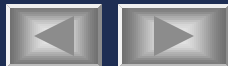
- **IT reputation attracts students and raises their expectations**
- **Our services must compare with Microsoft, Hotmail, and Amazon.com; this requires:**
  - Sophisticated self support and service
  - 24/7 access to services
  - eCommerce and intelligent workflow
  - Robust network and computing infrastructure
- **Planning must adapt quickly to rapid technological change and new opportunities**



# Overarching Goals

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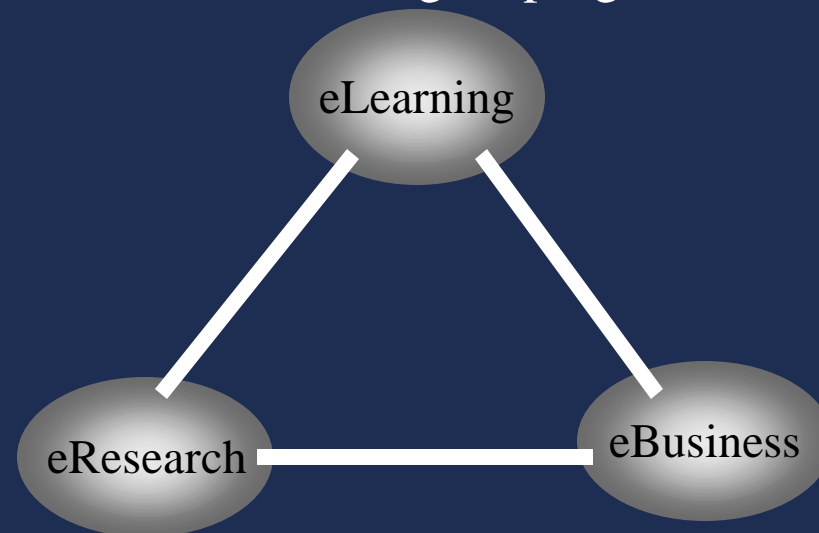
- Utilize IT to enhance the quality of learning and research
- Utilize IT to improve customer service, enhance access to information, and reduce the cost of administrative processes
- This presentation will refer to the role of IT in functions such as eLearning, eBusiness, and eResearch



# Technology Triad

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Simulation, multimedia, streaming video, electronic access to information, anytime/anyplace access, online degree programs



Research, scholarly collaboration, simulation, computation, electronic access to information

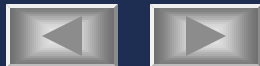
Self service, 24/7 access, off-campus access to services, integrated databases, decision support, eCommerce



# Technology Strategy

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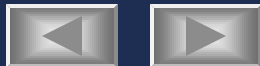
- **Adopt industry standards wherever possible**
- **Integrate as much as possible the technology used by faculty, staff, and students**
- **Assured Access to computing**
- **Utilize myUMBC as a portal to all “e” services**
- **Continue enhancing our existing business systems as we implement new systems**
- **Focus on using technology to make activities easier and promote self-service**



# eLearning Activities

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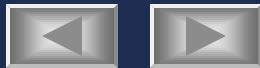
- **Integration of library, computing, and instructional technology services**
- **Microsoft Site License for Students**
- **Faculty Development**
  - WebCT
  - Microsoft Mentor Program
- **Assured Access to computing**



# eLearning Needs

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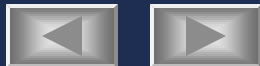
- **Infuse technology throughout the curriculum**
  - Staffing and funding for faculty development
  - Integrating course delivery and management with administrative services
- **Ongoing equipment renewal**
  - Desktop computers and peripherals
  - Instructional labs
  - Renovated classrooms
  - Networks and servers
- **Funding Assured Access plan**



# eBusiness Activities

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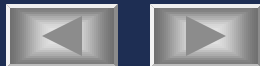
- **Participating in Oracle SIS initiative**
- **Implementing degree audit; admissions; scheduling; and reporting**
- **Implementing FRS Plus financial system for accounting and procurement**
- **Issuing RFP for HR/Payroll**
- **Assuring Y2K compliance**
- **Online marketing and web development**



# eBusiness Needs

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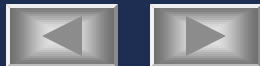
- **Improve business processes**
  - 24/7 web access to services
  - Electronic commerce
  - Automated workflow
  - Integrated databases and applications
  - Enhanced reporting, and decision support
- **Training**
  - Staffing and funding for staff development
  - Empower employees, reduce bureaucracy
- **Ongoing equipment renewal**
  - Desktop computers and peripherals
  - Networks and servers



# eResearch Activities

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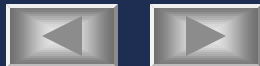
- **Developing IT infrastructure for research**
  - High performance computing
  - Bringing network to Internet2 standards
  - vBNS and Internet2 membership
- **Providing access to electronic information resources**
- **Advancing the state of the art**
  - Partnering with industry for training
  - Research centers (IGEC,JCET,IRC)



# eResearch Needs

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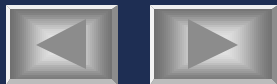
- **Staffing and funding to support research**
  - Providing advanced computation and networking for scientific computing
  - Providing technical support
  - Increased funding for online information resources
- **Enhance business systems to support grants and contracts**



# UMBC Needs

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- **Support for enhanced funding**
  - Funding to implement Assured Access: \$750K over 3 years
  - Funding to enhance decision support: \$250K/year
  - Funding for classroom renovations: \$100K/year
  - Funding for faculty development initiatives in technology: \$200K/year
  - Funding for administrative systems:TBD
- **Fund for a desktop leasing agreement: 720K/year**
- **Funding for campus networking: \$250K/year**



# The Regents Role

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- **Provide Leadership**
  - Utilize technology for conducting your business
  - Emphasize technology goals in President's PMP
- **Review and Revamp USM Policies**
  - Electronic signatures and electronic document routing
  - Intellectual property issues
  - HR policies to recruit and attract staff and faculty
- **Commitment to Sustained Funding**
  - Long-term financial support to bring up and operate an integrated suite of administrative applications
  - Support for Digital Libraries in Maryland

