

Enterprise Resource Planning Programs

Offered by the Department of Business & Information Technology

Corporations world-wide have focused on improving business processes for the past two decades. In their efforts to use information technology more effectively in enabling business processes, we have seen the emergence and growth of Enterprise Systems, and more recently, Extended Enterprise Systems such as Supply Chain Management (SCM), Customer Relationship Management (CRM), Strategic Enterprise Management (SEM), and Business Intelligence. Most Fortune 500 companies have already adopted Enterprise Resource Planning (ERP) systems and many midsize companies are also planning ERP implementations. With a commitment to keep pace with these changes in business processes and technology, the Missouri S&T joined **SAP University alliance, Oracle Academy, and Microsoft's University Alliance** programs in order to continue and expand classroom capabilities for integrating ERP software into the curriculum.

ERP is viewed as a combination of business management practice and technology, where Information Technology integrates with a company's core business processes to enable the achievement of specific business objectives. ERP systems incorporate state-of-the-art technology, providing a comprehensive teaching tool for business and for information systems. The Missouri S&T' **ERP program** have been leveraging various ERP products and technologies from **SAP, Oracle, and Microsoft** to enhance our students' learning experiences through a well-designed and balanced curriculum. The Missouri S&T' **ERP program** work very closely with many ERP companies on different collaboration projects to serve our business community and to bring managerial relevance into our business education in a Hi-Tech world. The Missouri S&T' ERP program prepares undergraduate and graduate students for positions as both technical and business consultants in the ERP field.

Undergraduate Emphasis Area in Enterprise Resource Planning

A student who receives a Bachelor of Science in Business and Management Systems or in Information Science and Technology at Missouri S&T may also graduate with an emphasis area in ERP. As part of meeting the normal requirements for the BS, the student must take ERP Systems Design and Implementation (ERP 346) and two other courses from among Enterprise Portal Application Development (ERP341), Use of Business Intelligence (ERP345), Supply Chain Management Systems (ERP 347), Strategic Enterprise Management Systems (ERP 348), or ERP Systems Administration (ERP349).

Undergraduate Minor in Enterprise Resource Planning

A student who receives a Bachelor degree other than in Business and Management Systems or in Information Science and Technology at Missouri S&T may also graduate with a minor in ERP. As part of meeting the normal requirements for the BS, the student must take Financial Accounting (BUS120), Introduction to ERP (ERP246), and ERP Systems Design and Implementation (ERP 346) and two other courses from among Enterprise Portal Application Development (ERP341), Use of Business Intelligence (ERP345), Supply Chain Management Systems (ERP 347), Strategic Enterprise Management Systems (ERP 348), or ERP Systems Administration (ERP349).

Graduate Certificate in Enterprise Resource Planning

A graduate level student may receive an ERP Graduate Certificate from the Information Science and Technology department at Missouri S&T by completing ERP Systems Design and Implementation (ERP 346) and ERP Systems Configuration and Integration (ERP 446) and two of the following courses, consisting of Enterprise Portal Application Development (ERP341), Use of Business Intelligence (ERP 345), Supply Chain Management Systems (ERP 347), Strategic Enterprise Management (ERP 348), Enterprise Resource Planning Systems Administration (ERP 349), Customer Relationship Management (ERP442), or SEMS Implementation and Configuration (ERP 448).

Students with an ERP Emphasis, ERP Minor, or with a Graduate Certificate in ERP will be eligible for an Missouri S&T-SAP Certificate, authorized by the SAP Corporation.

Entrance into IST M.S. Graduate Program:

A student that completes a Graduate Certificate at Missouri S&T, having earned a grade of "B" or better in each of the certificate courses, may be admitted to the M.S. program in Information Science & Technology. The normal application process will be followed, but the minimum undergraduate GPA and GRE score requirement will be waived. Normal course prerequisites still apply.

Enterprise Resource Planning Course Focus

ERP vs. Non-ERP Courses	Course	Short Course Title	SAP Certificate Courses*	Typical Course Suggestions (R: Required courses; E: Elective)								
				Undergraduate Students (emphasis area, minor)		Graduate Students						
				More IT focused	More end user & Business focused	ERP Graduate Certificate				BI Graduate Certificate		MBA Emphasis Area
						Supply Chain	ERP General End Users	ERP General Developer	ERP Dashboard/Scorecard Developer	BI End User	BI Developer	
ERP Courses	ERP 246	Intro to ERP	X	R	R							
	ERP 341	Enterprise Portal	X	E		E	E	E	E	E	E	
	ERP 345	Use of Business Intelligence	X	E		E	E			R	R	E
	ERP 346	ERP Design & Implementation	X	R	R	R	R	R	R	E	E	E
	ERP 347	Supply Chain Management Systems	X		E	E	E					E
	ERP 348	Strategic Enterprise Management System	X		E		E			E		E
	ERP 349	ERP System Administration	X	E				E				
	ERP 442	Customer Relationship Management	X			E				E	E	
	ERP/IST 444	Data Warehouse	X					E	E	R	R	
	ERP 446	ERP Configuration	X			R	R	R	R			
	ERP 448	Enterprise Performance Management System Prototyping	X					E	E		E	
BUS 426	Business Process Integration Using ERP	X									R	
non-ERP Courses	IST 443	Information Retrieval & Analysis								E		
	IST 445	Database Marketing								E		

* **Exception:** No more than two of the following can be counted, since portions of the SAP material overlaps in these three courses: ERP 246, ERP 346, BUS 426.