This course addresses issues in planning, constructing and operating an Enterprise Systems. The ERP system - a de facto solution for an enterprise information backbone in industry - is considered a foundation for an effective Enterprise System. SAP's ERP and supply chain system (APO) are chosen to illustrate current industrial practices. Technologies and implementation issues surrounding SAP's ERP and APO systems are discussed. Additional topics such as supply chain management, extended enterprises, web services are presented. A significant portion of the course is devoted to SAP ERP configuration, e-Business simulation and supply chain design exercises. The exercises not only introduce basic functionalities of Enterprise Systems but also build working knowledge and skills necessary in the configuration of an enterprise information system.