What is Enterprise Resource Planning (ERP)?

providing high cross-functional integration among sales, marketing, manufacturing, operations, logistics, purchasing, finance, and human resources,

Based on ERP: Making it Happen by Wallace and Kremzar
Key ERP Concepts

Integrated

Real-Time

Single Storage

Adaptable

Secure

Enterprise-Wide Applications (EWAs)

BI--

CRM--

SCA--

SCE--

SCM--
Enterprise-Wide Applications (EWAs) cont.

SCP--

SEM--

TMS--

WMS--

ERP--Enterprise Resource Planning software. In application, a superset of above applications.

What is the value of ERP?

Faster transaction processing.

Improved financial management and customer service.

Improved decision making due to information availability and accuracy.
Who makes ERP software?

SAP

Oracle Applications
  Oracle, JD Edwards, PeopleSoft, Siebel, Retek

Microsoft Business Solutions
  Dynamics (Great Plains), Navision, Axapta, Solomon

The Sage Group
  Sage Software – Accpac ERP, PeachTree

SSA Global Technologies
  BAAN

Who is SAP?

SAP pioneered the ERP software market.
Five former IBM employees in Manhheim, Germany
  founded SAP in 1972.

Systemanalyse und Programmentwicklung
  Systems Applications and Products (now), System
  Analysis Program Development (then)

Goals:
SAP Software Timeline

1973 "System R" (real-time data processing) released to market. (Later came to be called "R/1")

1978 "R/2"

1992/93 SAP R/3--3 tiered architecture

1994 and beyond

Enhancements and additional modules to R/3

Various "marketing names": SAP ECC, SAP Business Suite, mySAP, mySAP Business Suite, mySAP.com. SAP ERP, SAP Business Suite (preferred current names)
Why study ERP?

Job Opportunities

Transferrable experience
  Large scale application