

Enterprise Computing Conference Marist College

ERP at Farmingdale State College
and the
PM100 Award

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*What is SUNY Farmingdale doing
to prepare students??*

What does ERP have to do with it?

A look at ERP in academia, does using this real world tool make a difference to industry?

Does using a real world tool, ERP, in academia makes a difference in adding value in student knowledge or skill sets that mirrors industry needs?

Farmingdale
State College

Prezi of
ERP Activity at Farmingdale State
College

- http://prezi.com/zivfwmi0vx-h/edit/#0_351300

The need for ERP Education

ERP Systems have become so widespread that they are difficult to ignore, if academics want their teaching and research to be relevant

Using real world tools, specifically ERP, in academia is a reality in some colleges today,

University and Industry synergistic relationship provides opportunity for students to get hands on use of a real world ERP tool with real world applications that replicates that which is in industry.

Schools supported by several ERP vendor initiatives, are increasingly integrating enterprise systems in their curricula.

(Cronan, Douglas, Almuaimi and Schmidt, 2009).

There are numerous reports

about the integration of ERP software into undergraduate business curricula and about the potential value of such initiatives in promoting cross-functional understanding of business processes. (Becerra-Fernandez., 2000)

*Using a real world ERP tool in the
classroom in conjunction*

with teaching theory and concepts

allows for

a literacy and comprehension that is **not** available
otherwise.

What we learn to do we learn by doing

Students who experience active learning

in their courses perceive themselves as gaining knowledge and understanding from their course and view their course work as *personally rewarding* (Braxton, Milem and Sullivan, 2000).

Each student *has their own database* to work on and are encouraged to use the software to explore the functions of the system.

This is a true opportunity to **build skills** that are very strong for **today's markets**.

The skills students develop in this course, whether a company uses Visual or not, *apply to virtually all ERP systems*.



ERP At FSC Overview

Agreement with Synergy Resources and Infor Global Solutions provides Farmingdale State students the opportunity to experience ERP concepts by using gifted Visual ERP Software in the classroom.

Giving them a Distinct Competitive Advantage

This is not a Training program for Visual.

The gaps in student's skills sets and what is deemed of value in the eyes of academia and industry (practitioners) differ.

This difference in academic and practitioner perception is not new information considering this concern has been around for a very long time. (Lee, Koh, Yen, Tang, 2002)

Bridging the GAP



Academia

Industry

*With the current economic and political
conditions*

both academics and practitioners are more receptive to
allying with and learning from each other.

(e.g., Burack, 1999; Rynes & Trank, 1999; Slaughter & Leslie, 1997)

Students in class Exercises and Activities

Enter Quotation Order on the Shop Floor

Enter Customer Order from Quotation

Evaluating Backlog

Evaluating our forecast against true orders

Entering the Parts

Entering the Product Structure

Adding Material to Product Structure

Customer Order Entry Exercise

Entering a Customer Line Item

Creating a Linked Work Order

Modifying the standard Work Order

Product Structure

Planning for Make to Stock Work Orders

Setting up a MTS Part ID

Material to a Work Order

Reviewing the Cost of the Work Order

Completion of the Work Order

Processing a Shipment

Measuring Profit and Loss

Accounting Transactions

Lean activities

Execution of Work Order

Creating a New Product Structure

Using a Master Schedule to Create Demand

Entering a Master Schedule into Visual

Running MRP

Enterprise Resource Planning



A TRANSITIONAL APPROACH FROM THE CLASSROOM
TO THE BUSINESS WORLD

The understanding of an ERP system is a critical building block towards developing a career in ***business or engineering.***



Enterprise Resource Planning

*Industry has recognized this
ERP preparation at*

Farmingdale State College as a significant contribution in the preparation of students entering the workforce with the

Progressive Manufacturing PM100 Award

Industry comments

These students fit like a glove....in our implementation of ERP.

This ERP class is preparing the next generation, for our industry.

Currently we find that the people available are from obsolete systems and processes.

Having knowledgeable students who know an ERP system will help our company.

Industry Speaks

Steven came in as a clerk and he is slated for a higher position in planning because of how and what he has done. He is doing great, he really works very hard, I am very happy with him, **he is a success story right out of your ERP class**, and he is phenomenal, really.

CPI Aero



Industry Speaks Again..

Chris was already familiar with ERP concepts. This was a huge benefit to us as that is what we specialize in.

Because the instruction is 'hands on' they understand concepts that often take years for an average student to master.

A person who understands that really can help our customers.

Synergy



ERP has become a necessity in today's workplace because it helps companies integrate all their real time data and processes into a **unified system** which will help them meet demand for products on time and cost effectively.

Enterprise Resource Planning

Industry keeps talking..

- We were very grateful for the training that the students received from Farmingdale before starting their internship here.
- We were able to jump right into issues we were having with transactions in the ERP system and not spend an enormous amount of time training about how an ERP system works.
- The ERP Students had an understanding of how an ERP system is integrated through all departments, how inventory plays an important role, how every transaction has a financial statement attached. *Meopta*

ERP a Foundation for all Business Systems

An Enterprise Resource Planning (ERP) program is a **software database** specifically used by organizations to manage information and support business processes encompassing every area of their business.

This software allows companies to identify ***needs, plan production, maintain supplier and customer information, and assess costs.***

Enterprise Resource Planning

A TRANSITIONAL APPROACH FROM THE CLASSROOM
TO THE BUSINESS WORLD

Today, enterprise systems

- provide better ways of integrating the whole business curriculum in helping students develop integrative skills that are in great demand by today's business organizations. (Seethamraju, 2007).

With more practitioners

participation in academic advisory boards, more practitioners involved in academic research, increases in donations to higher education, increase recruitment of academic researchers by private industry and more locations of corporate research and development centers near universities more practitioners are becoming more involved in academia. (e.g. Burack, 1999; Slaughter & Leslie, 1997; Stross, 1997).

Corporations

that have the strongest networks with university researchers and the strongest internal capacity for identifying and evaluating research will be in the best position to solve the really important problems that impeded further progress. (Rynes, Bartunek, Draft, 2001).

Michael Packer Lockheed Martin's VP of Manufacturing Strategy
(Manufacturing Executive Leadership Journal)

As technology becomes more advanced in the industry, the need for a better trained and prepared workforce becomes more critical to building a sustainable talent pipeline.

Farmingdale State College

Today's business people (and tomorrow's) should understand what an ERP system can do for a company. [Brady et. al., 2001]

The need for ERP Education

Greater demand is put on providing education opportunities that require students to preplan for their future employment to think in more integrated ways than they have in the past.

(Ottewill, 2005).



Can't Stop them from talking...

The ERP students were able to navigate through the various windows. They had a basic knowledge of how a bill of material is structured and the knowledge of how a single action in a Work Order may affect items further down the line.

They had a very good all around knowledge of ERP, which minimized the amount of my time instructing / coaching them in their daily activities.

They truly were on their own after 2 days of “Orientation” and required very little attention.

. The Intro to ERP is a great stepping stone for entering the Manufacturing world.. ARKWIN

Farmingdale State College

WINS

*Prestigious Award For Prof. O'Sullivan's
Into to ERP BUS313 Class*

MANAGING~~PROJECTS~~**AUTOMATION** PRESENTS THE
PMI100 AWARDS
2010



<http://www.managingautomation.com/awards/>



The PM100 award is a yearly recognition given to 100 companies worldwide.

- **Farmingdale State College was the only educational institution to receive this prestigious award.**
- **The award was presented to Professor Jill O'Sullivan as a result of her arduous and devoted dedication to Enterprise Resource Planning.**

There is a demand for graduates with ERP

education or skills as seen in higher salaries as compared to those who do not have ERP experience or skills. (Andrea, Dittmer, & Soave, 2008).

Those graduates with ERP coursework

received an average of \$4,056 more than non-ERP trained graduates, and the difference could reach more than nine thousand dollars for some business majors (Andera, Dittmer, & Soave, 2008).

Having ERP in the classroom provides an opportunity for academic entities

to develop a competitive advantage over competing schools nationally and internationally.

Adopt a Graduate

- http://www.youtube.com/watch?v=Y_ZwY99womA

The End