• Everyone seeks a teacher/mentor/coach at different stages of life.

• Am I prepared to deliver what they are seeking and need?
Student Expectations of a Teacher?

- Competent-Knowledgeable
- Challenge-Motivate
- Care-Fair
Are You My Teacher
Are You Ready to be Her/His Teacher?

- Can you remember when students were unsure if you were a graduate student or a faculty member?
- Have you encountered the student who looked at you in disbelief that someone that old is their teacher?
- In both cases, the student wants to know, is it possible you are my teacher.
  » You don’t have enough life experience
  » You don’t have enough experience about my life
What are the Imbedded Questions and Observations

• It is not can you use the internet but are you staying current with the technology.
• How do I adapt to innovation and technology changes?
• Are you wasting my time?
• If you are not willing to stay current how can I trust you?
• Technology changes fast.
Discover and Refinement
When I began teaching 1995

- **WWW**: Tim Berners-Lee (1989)
- First web browser (1990)
- Netscape (1994)
- Microsoft Internet Explorer (1995)
Innovation in My Career?

• PowerPoint was officially launched on May 22, 1990

2017
Case IH Autonomous Vehicle
What Will Happen to All the Tractor Drivers?

You will help them learn to create a job or career that did not exist.
Unemployment and Educational Attainment

Unemployment rates and earnings by educational attainment, 2016

<table>
<thead>
<tr>
<th>Educational Attainment</th>
<th>Unemployment Rate (%)</th>
<th>Median Usual Weekly Earnings ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral degree</td>
<td>1.6</td>
<td>1,664</td>
</tr>
<tr>
<td>Professional degree</td>
<td>1.6</td>
<td>1,745</td>
</tr>
<tr>
<td>Master's degree</td>
<td>2.4</td>
<td>1,380</td>
</tr>
<tr>
<td>Bachelor's degree</td>
<td>2.7</td>
<td>1,156</td>
</tr>
<tr>
<td>Associate's degree</td>
<td>3.6</td>
<td>819</td>
</tr>
<tr>
<td>Some college, no degree</td>
<td>4.4</td>
<td>756</td>
</tr>
<tr>
<td>High school diploma</td>
<td>5.2</td>
<td>692</td>
</tr>
<tr>
<td>Less than a high school diploma</td>
<td>7.4</td>
<td>504</td>
</tr>
<tr>
<td>Total: 4%</td>
<td></td>
<td>All workers: $885</td>
</tr>
</tbody>
</table>

Unemployment and Educational Attainment

Figure 18. Median standardized hourly wage for spring 2002 high school sophomores who were currently employed, by students' highest educational attainment: 2012

NOTE: Earnings that were reported in a format other than dollars per hour (e.g., dollars per week) were standardized to dollars per hour. Estimates and standard errors are available in tables C-16a and C-16b.

Embrace Innovations in Education

“Technology is a gift of God. After the gift of life it is perhaps the greatest of God's gifts. It is the mother of civilizations, of arts and of sciences.”
- Freeman Dyson

Johannes Gutenberg

c. 1440

Source data: https://www.uspto.gov/web/offices/ac/ido/oeip/taf/h_counts.htm
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Source data: https://www.uspto.gov/web/offices/ac/ido/oeip/taf/h_counts.htm
Is this Your Classroom of the Future?

Harvard Business School
Are you Preparing for Your Classroom of 2027?

- What am I doing to stay competent in my craft?
- Who will attend?
- Where will you meet?
- When will you meet?
- What is the most effective learning environment?
- Will you let the student help design their learning environment?
- How much artificial intelligence will you use?
Are You Using Artificial Intelligence Today?

• “Don't fear super intelligent AI use it to enhance the human experience”
  - Grady Booch

• If your teaching activities rely on being the source of information then you will be replaced by Siri!

• The jobs we'll lose to machines -- and the ones we won't?
  » Machines: frequent, high volume tasks
  » People: creative, novel and complex
    - Anthony Goldbloom

• Do what we enjoy and are best suited for as teachers!
Student Expectations of a Teacher?

• Competent
  » Current in subject (What)
  » Bring a sense of order to what might appear as chaos (Explain What)
  » Illustrate relevance to the life/career of the student (So What)
  » Explore the current disciplinary boundaries (What is Next)

- Jonathan Shaver
What is in your toolbox?

- Am I preparing this student for a lifetime of learning?
- A U.S. student born in 2007 will on average live to the year 2085.
What is Her/His Future?

• Will my students be able to grow potatoes on Mars?
• Will they keep chickens alive on the Moon?
• Will they understand the nutritional requirements to live in low/zero gravity?
Student Expectations of a Teacher?

- Competent
- Challenge
- Care
People Build People

• Machines don’t build people, people build machines
• Building human capacity is key for the future
• As educators, we are in the business of developing people
• We should be ecstatic that we can focus on students and not technology
• Colleges like ours are really good at this
• This takes time and energy but offers the greatest reward!!!!
Challenge

• Expect students to stretch themselves.
• Encourage them to question why.
• Instill a desire beyond compulsory reasons to engage in the learning experience.
There are No Shortcuts

- Good literature cannot be summarized in a statement:
  - A Tale of Two Cities: Love your neighbor
  - Les Misérables: Help the unfortunate
  - David Copperfield: Child abuse is wrong
  - Crime and Punishment: Do not kill old ladies, even really mean ones
  - Moby Dick: Obsessions can be dangerous
There are No Shortcuts

• Create a desire in your students to know why the book is worth reading.
• “There’s no shortcut. One needs not just to analyze “the text” but to experience the work.”
• “No one experiences the world in quite the same way as anyone else”

“Cents and Sensibility: What Economics Can Learn From the Humanities”
Gary Saul Morson and Morton Schapiro, June 13, 2017 Inside Higher Ed
Challenge Students to Stretch for New Goals

• Encourage them to take ownership of their education
• Show how they can achieve desired goals
• Model my willingness to broaden my horizons
Student Expectations of a Teacher?

- Competent
- Challenge
- Care
Do I Know My Students?

• As an educator:
  » Do I know their name?
  » Am I aware of how they contextualize learning?

• As a communicator, do I know my audience?
  » GenZ, iGen
What Defines Gen Z or iGen?

• Beginning approximately 1996
• Don’t remember 9/11
• 23 million strong
• Cloud natives, have always had a smart phone
• Have always had a social presence:
  » Relationships
  » Virtual reality training
  » Problem solving
What Defines Gen Z or iGen?

- Highly educated: on YouTube and Pinterest
- Apps of choice Snapchat, Vine, and Instagram
- They want to know in **real time**
- Priority on finding right information fast **NOT** knowing the right information fast
- Most are still adolescents, they will be our students for the next 15 years!
Student Expectations of a Teacher?

• **Care**
  » Am willing to try and understand their difficulties, their hesitations, and their complexes.
  » Do I encourage them and build them up?
  » Have I created and communicated an atmosphere such they know the course evaluation is fair?
Student Expectations of a Teacher?

• Competent-Knowledgeable
  » It is no longer about **WHAT**
  » Invest your efforts on **SO WHAT and WHAT NEXT**
• Challenge-Motivate
  » Put **grand challenges** in front of me!
• Care-Fair
  » Let them know you care and will be fair!
• These expectations have not changed, with time.
• The teacher-student interaction is timeless
• **FOCUS on Your Student!!**
Who Was Your Teacher

- She was competent
- She challenged me
- I knew she cared and was fair

Mrs. Myra Hiles
1st Grade Teacher
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  - Brian Pearson
• Kevin Donnelly
• Susan
• Thank you