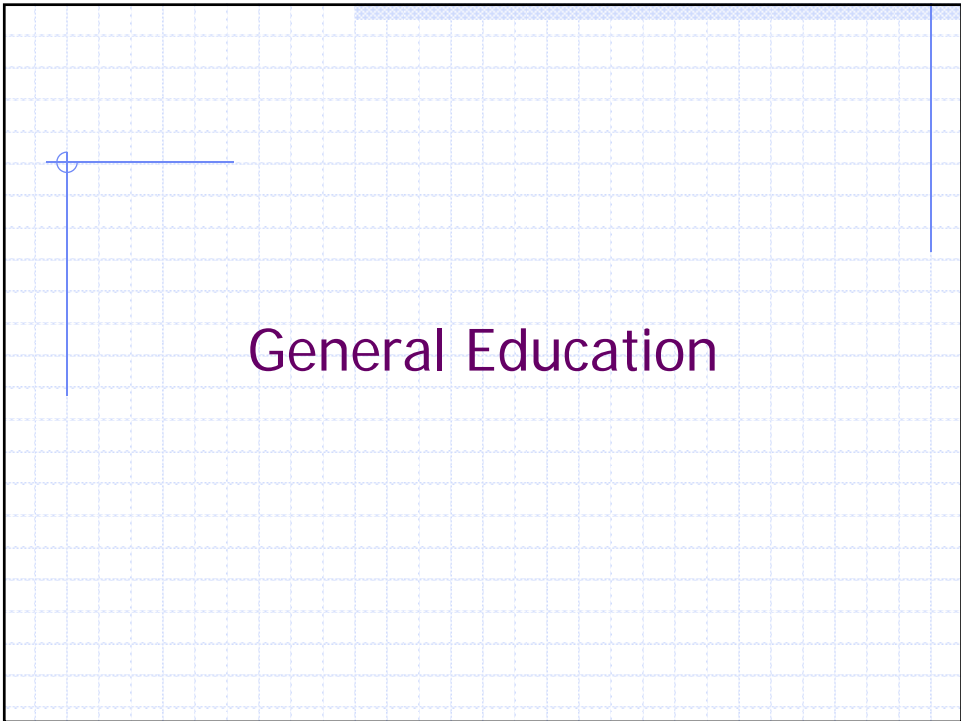


Oregon STEM



General Education

Oregon: Benefits of Education

- ◆ No High School Diploma: \$384
- ◆ High School Diploma: \$533
- ◆ Some College: \$598
- ◆ Associates Degree: \$677
- ◆ Bachelor Degree or higher: \$960+

Oregon Dept Labor 2006

Oregon STEM Careers

Oregon State Statistics



Employment Projections

National Picture:

2010 Predicted increase in jobs
{requiring 4-year degrees}

15.2% all occupations

75% increase in IT jobs.

U.S. Department of Labor Bureau of Labor Statistics

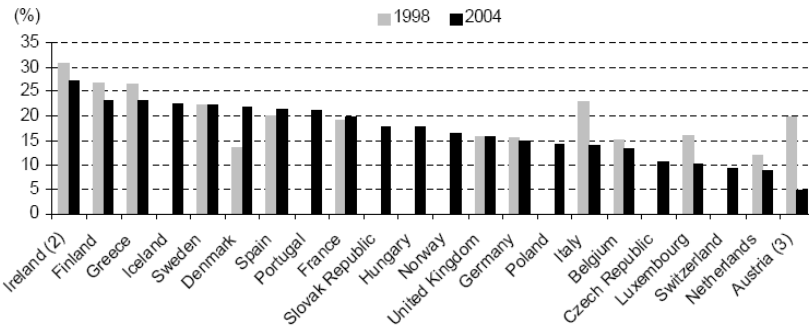
STEM Problems

Where are the women?

- ◆ 2005 - 88% of computer scientist were men
- ◆ US women engineering grads from 37% ('84) down to 20% ('99); worse since
- ◆ 15% of CS AP Exams – high school girls

International Problem:

Figure 8. Share of women computing professionals¹, selected OECD countries, 1998 and 2004



1. Computing professionals = ISCO 213.

2. 1999 instead of 1998.

3. 2003 instead of 2004.

Source: OECD, based on data from Eurostat, Newcronos database, 2006.

Effects most of us:

- ◆ Health fields
- ◆ Business
- ◆ Tech fields
- ◆ Industry



Solutions?

National:


◆ Software:

- Alice
- BlueJ – GreenFoot
- Karel
- Scheme

◆ Programs:

- Project Lead the Way (PLTW)
- Robotics

North Salem's Solutions:

- ◆ NBA – No Boys Allowed 
- ◆ Tech Conference – professional, student driven
- ◆ Curriculum:
 - Interdisciplinary (specialized, PLTW),
 - Types of problems,
 - Groups,
 - Presentations,
- ◆ Internships,
- ◆ Role models – panels, mentors

In the works:

- ◆ Survey of administrators and teachers
- ◆ Presentations:
 - COSA,
 - OACTE,
 - Math Leaders,
 - ...

Why should we care?

- ◆ Selfish – more students = more cs courses
- ◆ Students –
 - Better job opportunities
 - Living wage jobs
- ◆ US – diversity is strength
 - Problem solving
 - All population involved

GET THE PICTURE?



No Boys Allowed Tech Conference 2007

