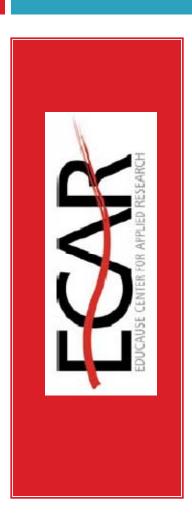




THE 2008 ECAR STUDY OF STUDENTS AND INFORMATION TECHNOLOGY: WHAT IT CAN TELL US ABOUT STUDENTS' USE OF TECHNOLOGY BOTH IN AND OUTSIDE THE CLASSROOM



## Educause Center for Applied Research



- 5<sup>th</sup> annual study of undergraduates' use of, & skill with, technologies & perceptions of impact of IT on their academic experiences
  - Primary component: Web-based survey
    - First-year & senior students at 90 4-year institutions plus students at 8 two-year institutions
  - New in 2008: Special topic focus groups
    - 75 students at 4 institutions
  - Some longitudinal comparisons

## 27,317 survey respondents

#### **Participant characteristics**

4 year institutions (23,661)

**UNCP (170)** 

□ Under 25

□ 83%

□ 64.7%

Female

□ 62.1%

□ 71.6%

- Full-time students
- **84.0%**

**82.7%** 

 $\Box$  GPA =/>3.0

□ 76.7%

□ 70.5%

- □ Living off-campus
- □ 55.1%

□ 67.6%

- Attending public institutions
- □ 74.8%

100%

Overall response rate = 11.9%; UNCP response rate = 15.1%

# Beloit College's "Mindset List" for students graduating in 2010 & 2011

- They are wireless, yet always connected.
- "Google" has always been a verb.
- Being tech-savvy has always been inversely proportional to age.
- The WWW has been an online tool since they were born.
- Music has always been "unplugged."
- □ Text messaging is their e-mail.



## **Presentation Organization**

- Mobility: Laptops & Internet-capable
   Cell Phones
- □ Computer & Internet Activities
- Student Technology & Information
   Literacy Skills
- □ IT in Courses (Preferences, Student & Instructor Use)
- □ IT's Impact on Student Success
- Social Networking Sites



### Mobility: Laptops & Internet-capable Cell Phones

#### **Key findings**

- Own laptops
- Own internetcapable cell phone
- Use internetcapable cell phone to access internet

#### **UNCP**

- **73.4%**
- □ 70.6%

□ 31.4%

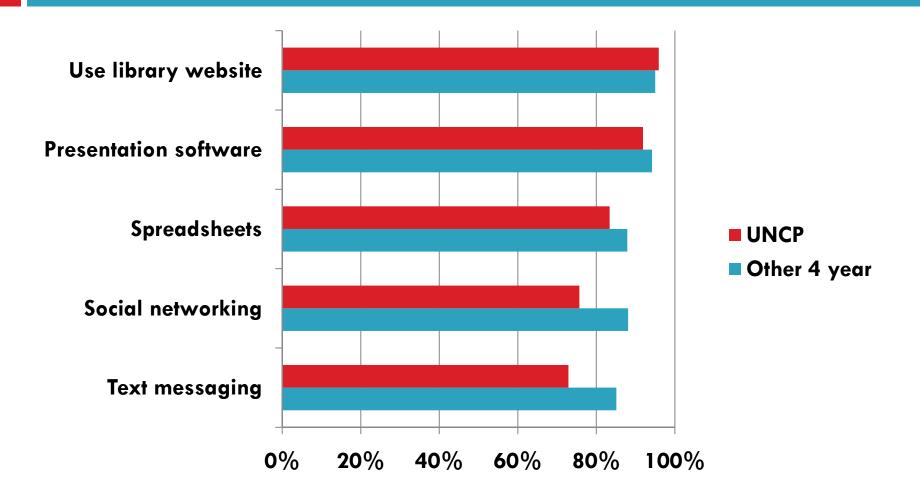
## Other 4 year institutions

- **83.5%**
- □ 65.9%

**30.8%** 

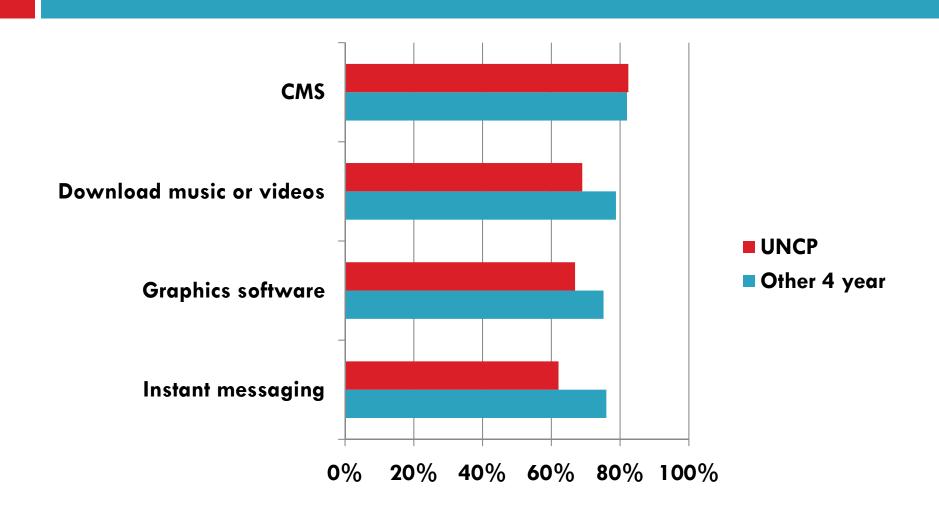
For all respondents, laptop ownership increased from 65.9% in 2006 to 82.2% in 2008.



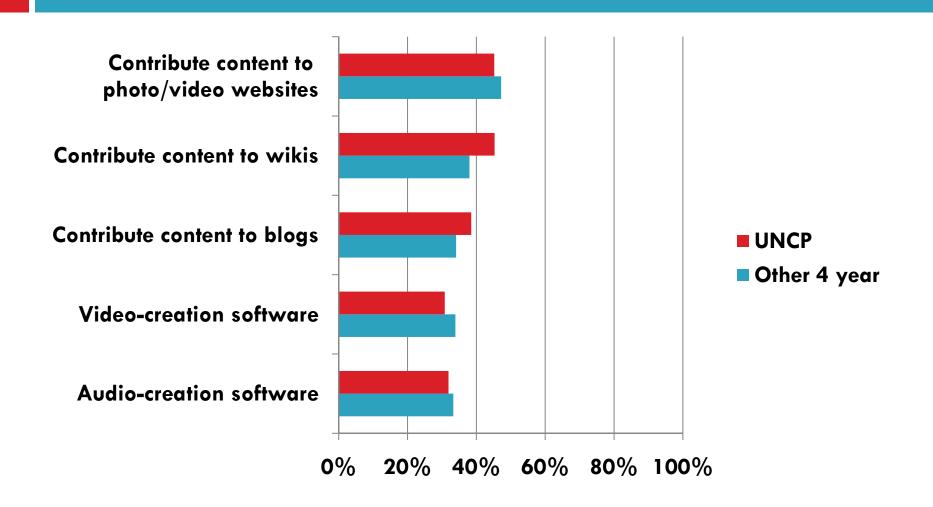


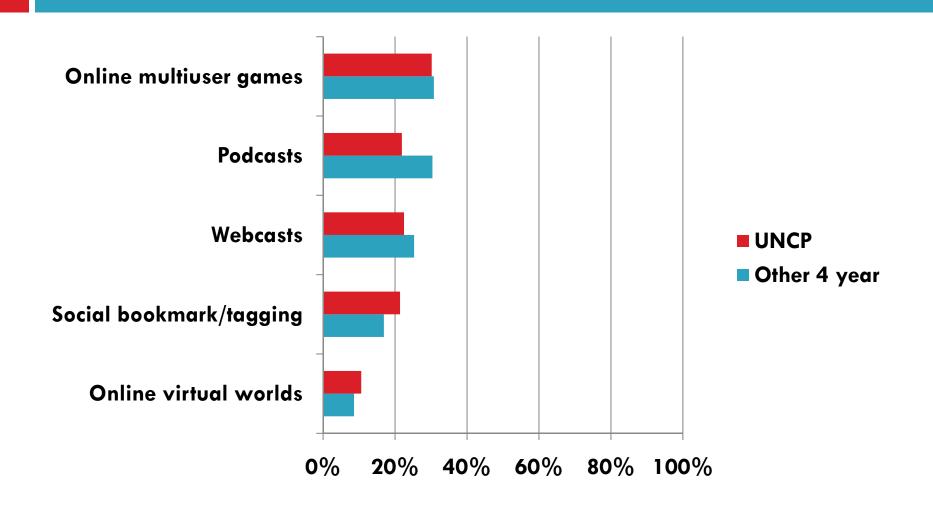
Use dial-up service: UNCP=5.3%; Other 4 year=1.6%





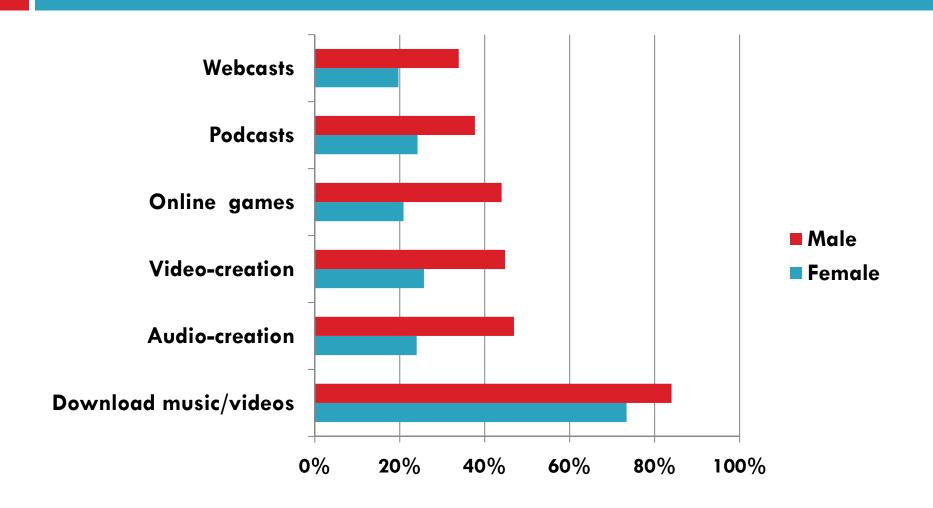




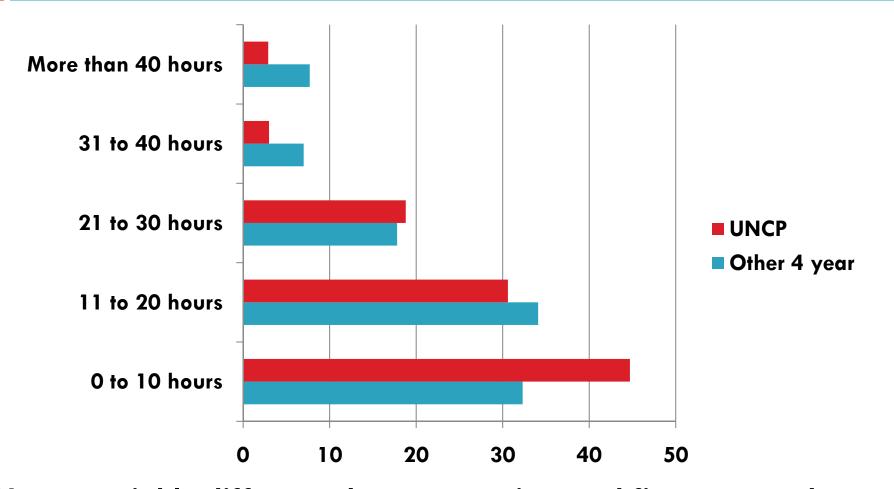




# Selected activities by gender (All respondents; M=9,864; F=16,918)



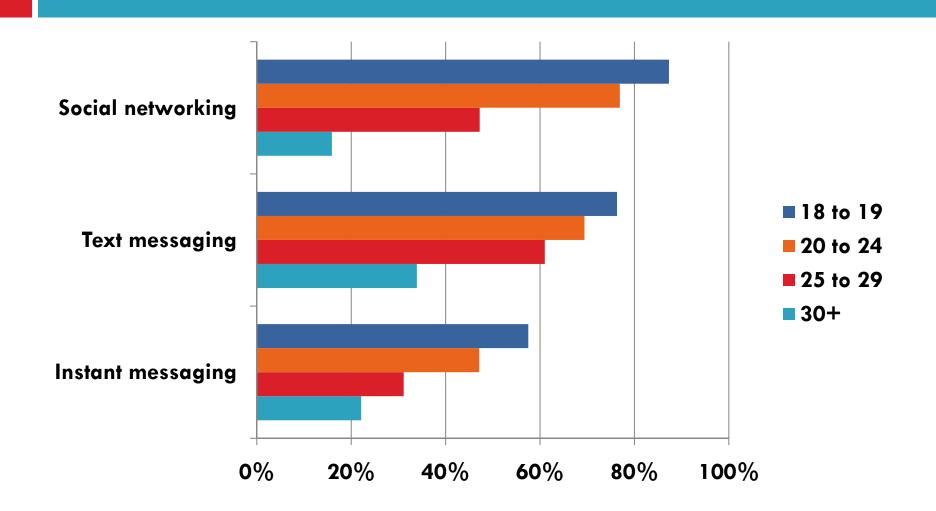
## Time spent doing Internet activities



No appreciable difference between seniors and first-year students

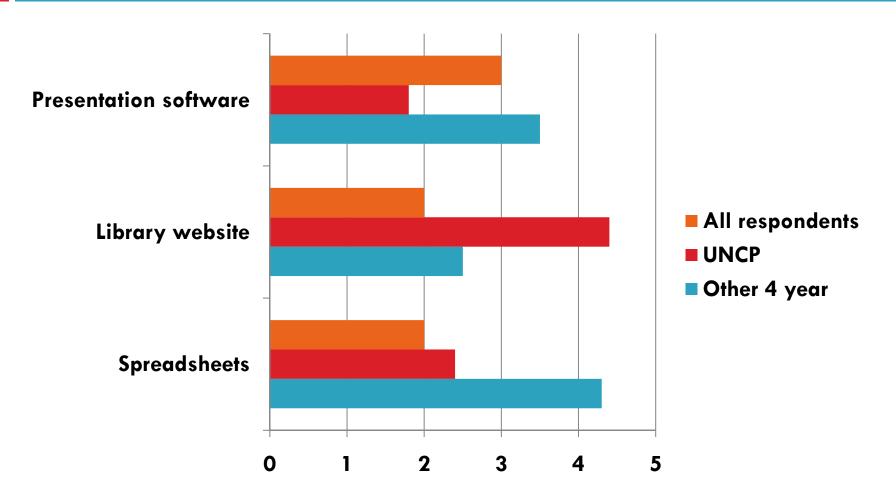


## Selected activities by age (Use several times per week or more often; all respondents)





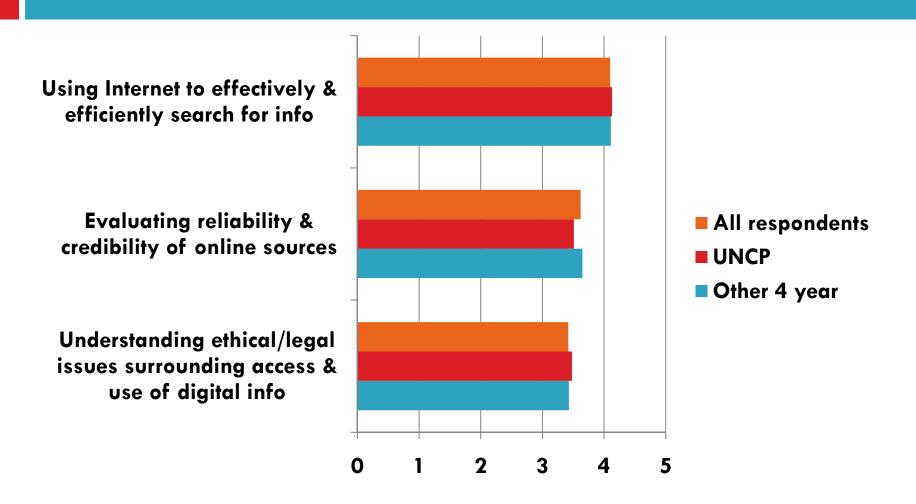
## Self-rated Student Technology Skills



1=Not at all skilled; 2=Not very skilled; 3=Fairly skilled; 4=Very skilled; and 5=Expert



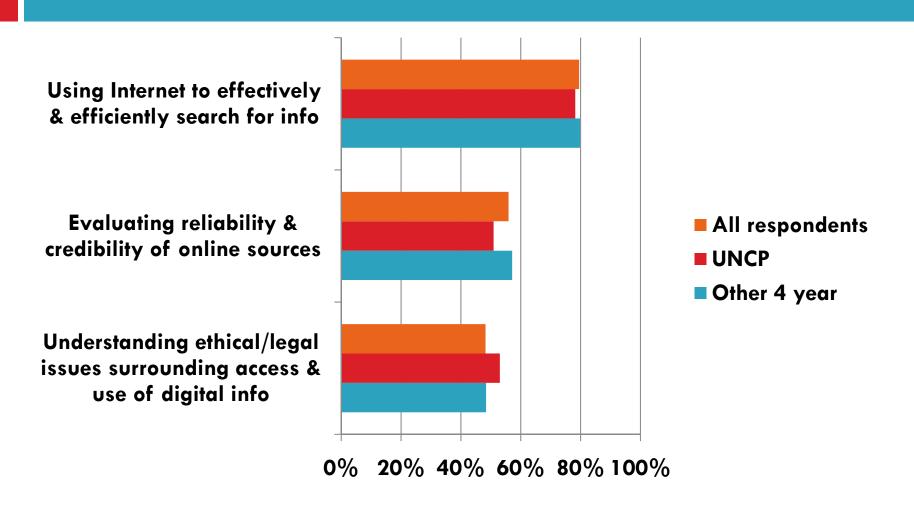
### Self-rated Student Information Literacy Skills



1=Not at all skilled; 2=Not very skilled; 3=Fairly skilled; 4=Very skilled; and 5=Expert



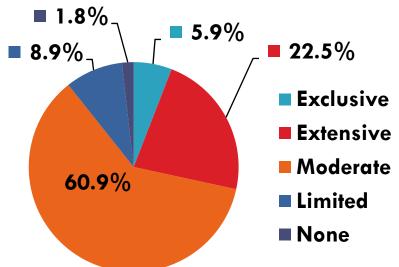
# Percent who view themselves as "very skilled" or "expert"



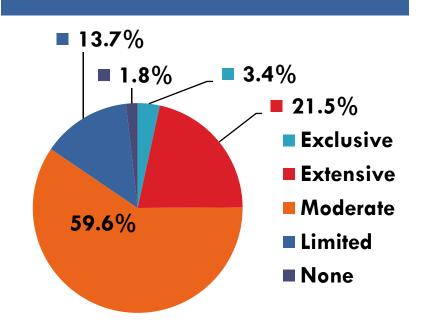


## How much IT use do you prefer in courses?



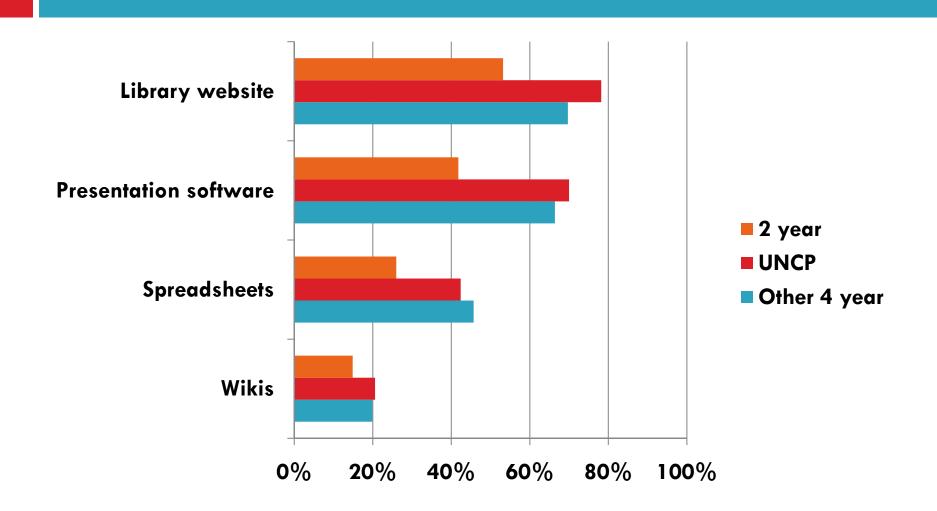


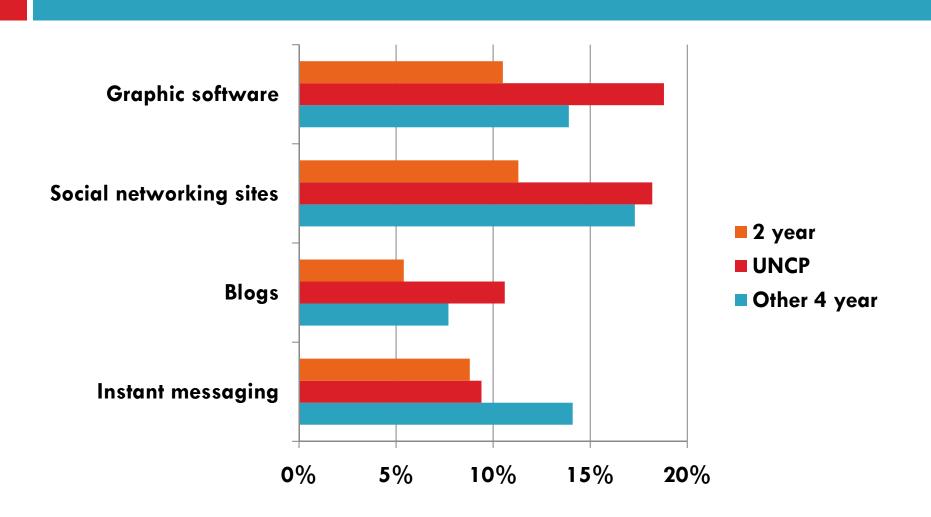
#### Other 4 year institutions



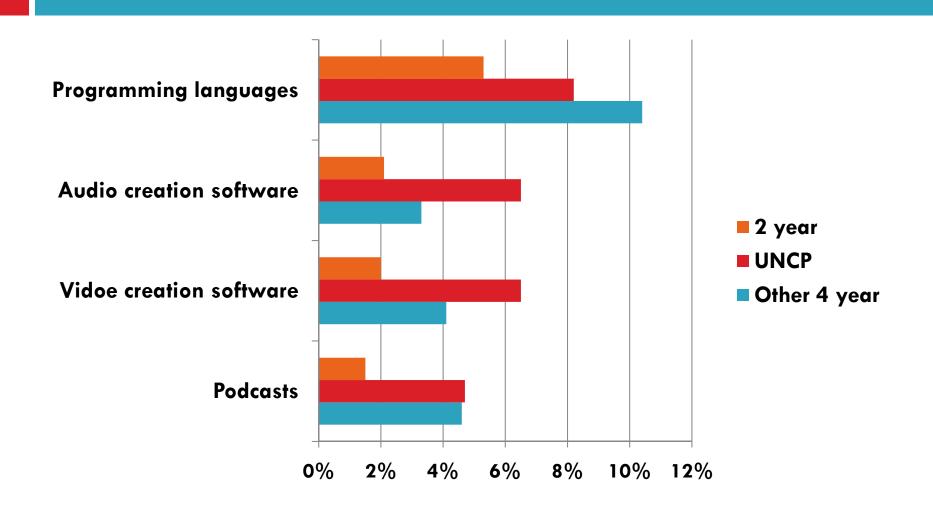
Overall, males prefer somewhat more IT in courses than females; similar preferences across age (first time in ECAR survey history)

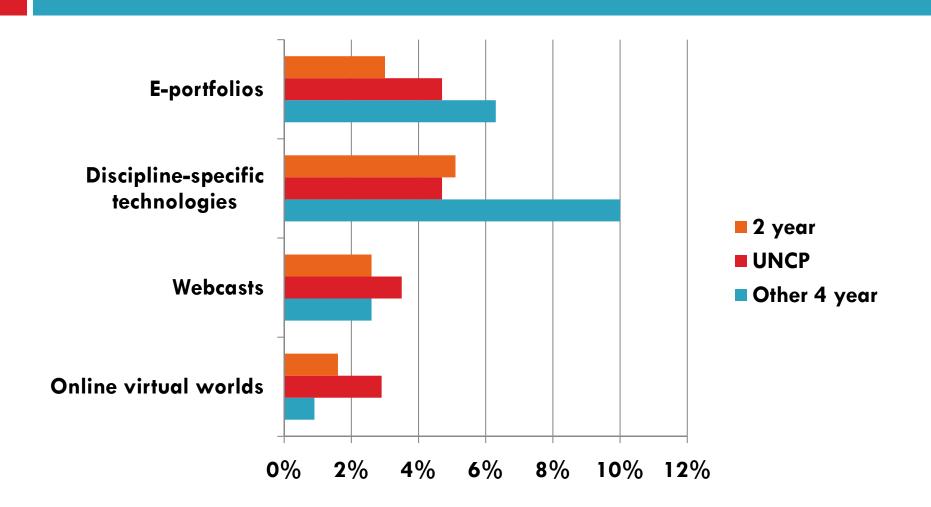












## Additional observations

- Seniors from 4-yr institutions use the following more than first-year or community college students
  - Presentation software (PowerPoint, etc.)
  - Spreadsheets (Excel, etc.)
  - Graphics software (Photoshop, Flash, etc.)
- □ Technologies by major
  - Engineering students use more technology overall than any other major
  - E-portfolios used most often by education majors

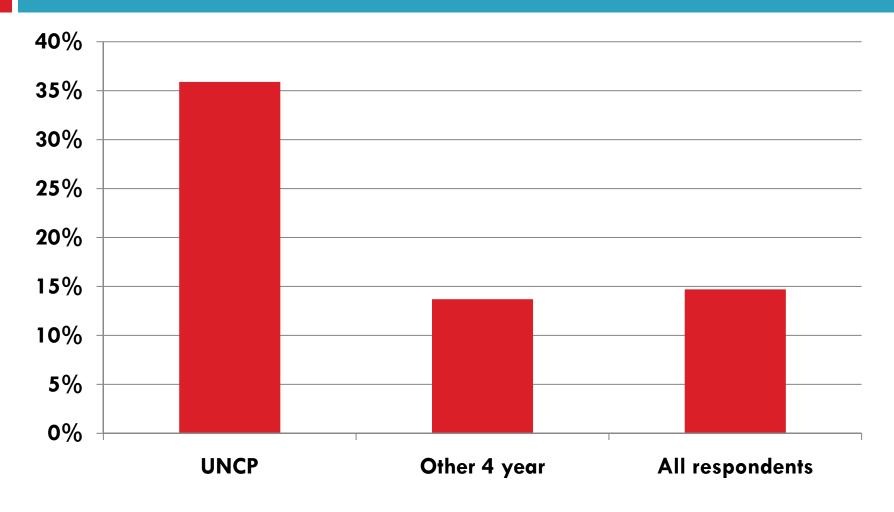
## Additional observations

- Technologies used more by fine arts majors
  - □ Graphics software (Photoshop, Flash, etc.)
  - Video-creation software (Director, iMovie, etc.)
  - Audio-creation software (Audible, GarageBand, etc.)





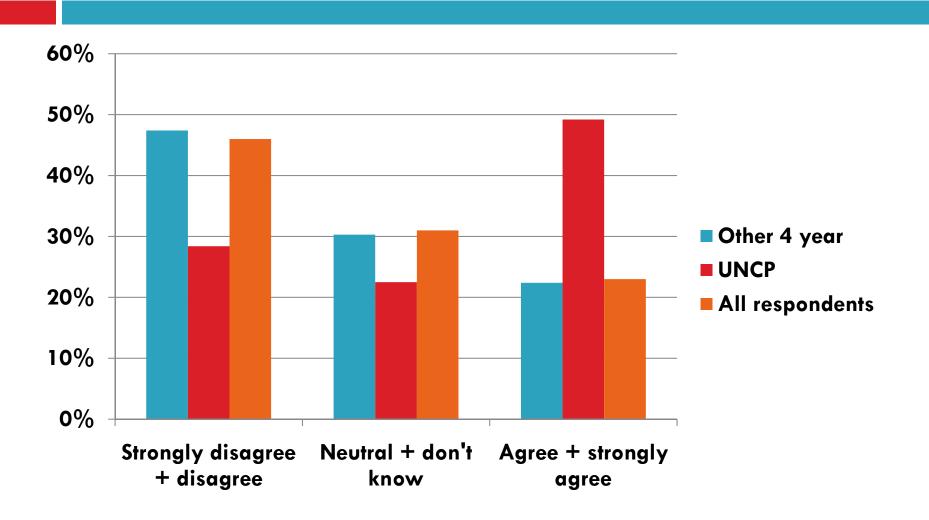
# Percent students taking one or more online courses



Older and part-time students more likely to take online courses.



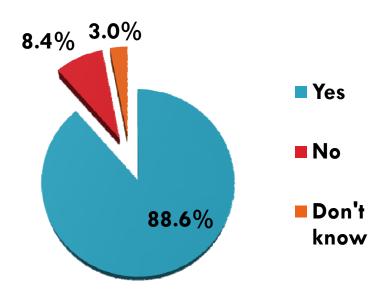
Responses to: "It would benefit students if my institution required students to take at least one entirely online course."





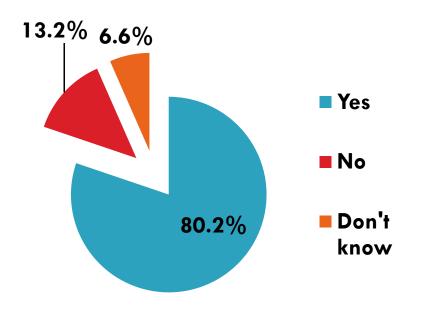
#### **UNCP**

#### Internet searches



#### All respondents

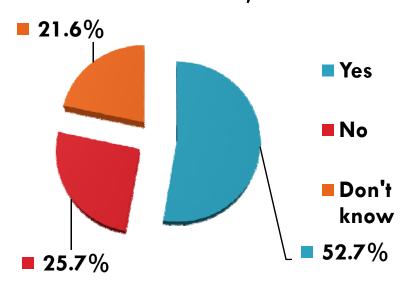
#### Internet searches





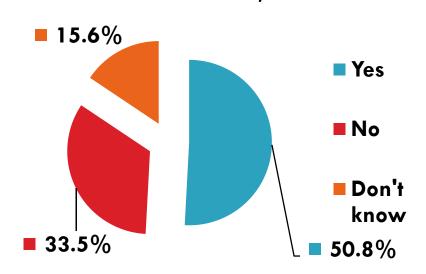
#### **UNCP**

Programs I can control, such as video games, simulations, etc.



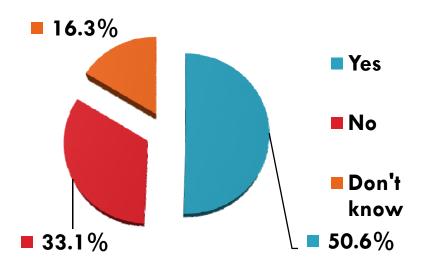
#### All respondents

Programs I can control, such as video games, simulations, etc.



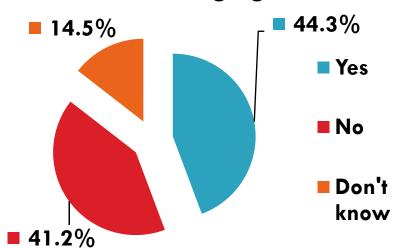
#### **UNCP**

Text-based conversations over e-mail, IM, and text messaging



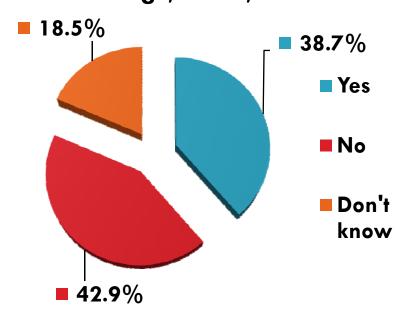
#### All respondents

Text-based conversations over e-mail, IM, and text messaging



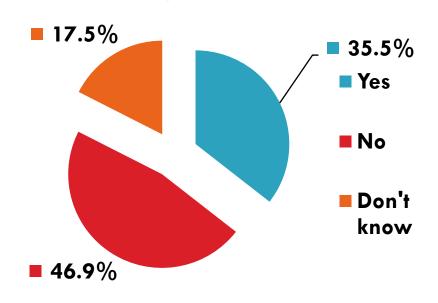
#### **UNCP**

Contributing to websites, blogs, wikis, etc.



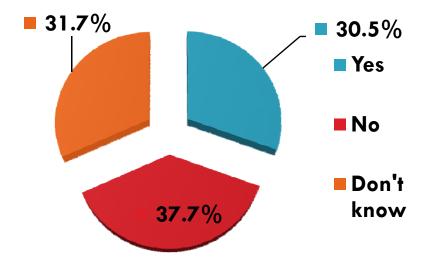
#### All respondents

Contributing to websites, blogs, wikis, etc.



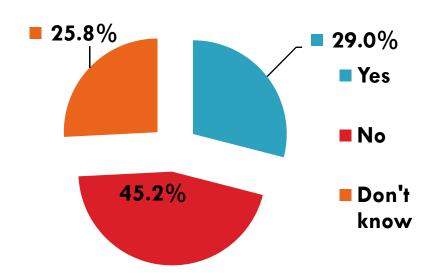


## Creating or listening to podcasts or webcasts



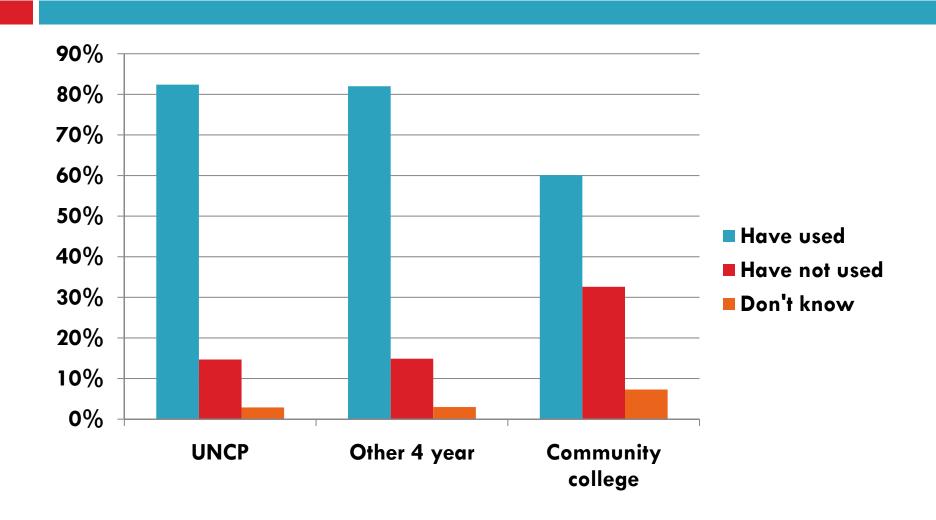
#### All respondents

## Creating or listening to podcasts or webcasts



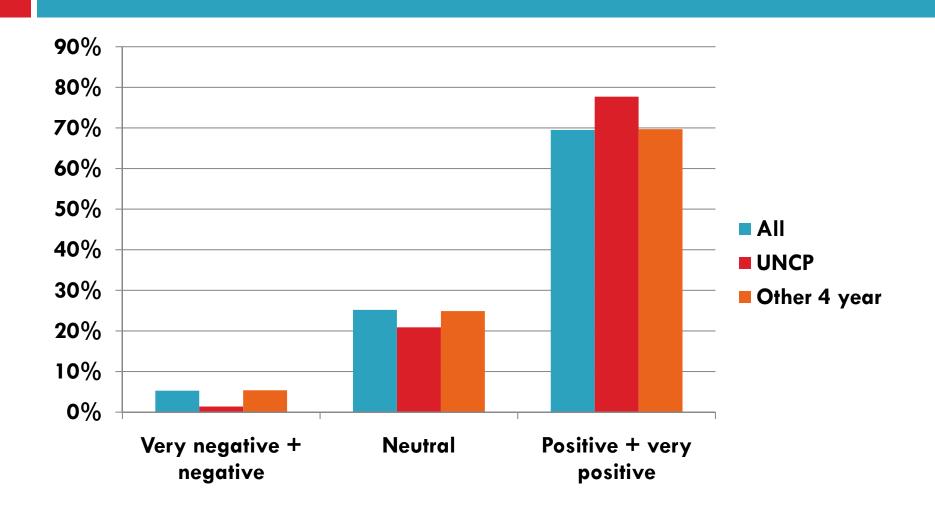


## Students who have used a CMS



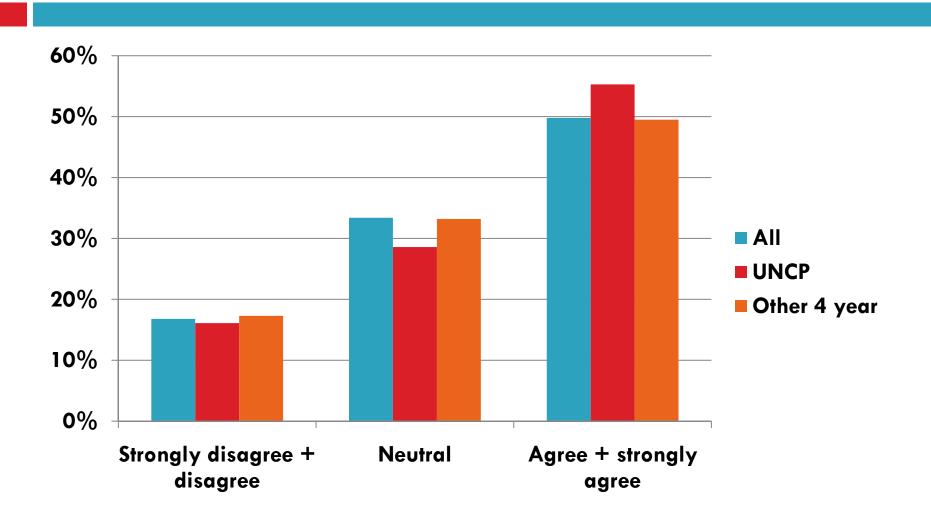


## **Experiences using a CMS**



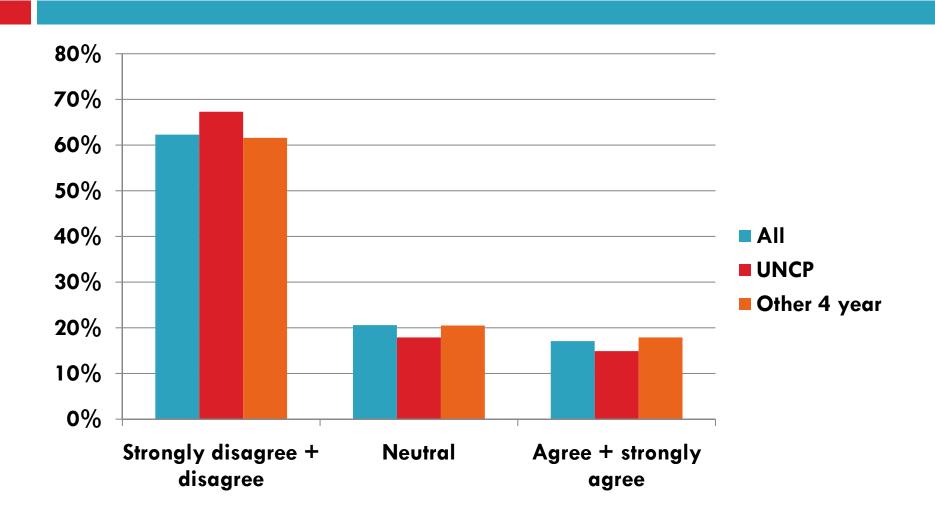
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Responses to: "My institution's IT services are always available when I need them for my course work."





## Responses to: "I skip classes when materials from course lectures are available online."



## Instructor use of IT in courses

"You have to watch! If you see technology being substituted for teaching, run."

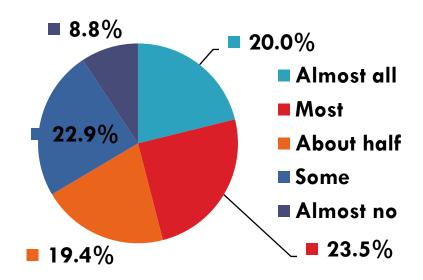
-- An undergraduate physics student



## Instructor use of IT in courses

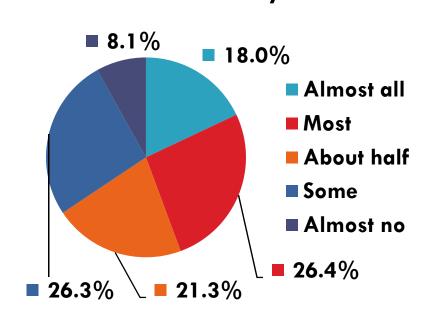
#### **UNCP**

## Instructors use IT effectively



#### All respondents

## Instructors use IT effectively

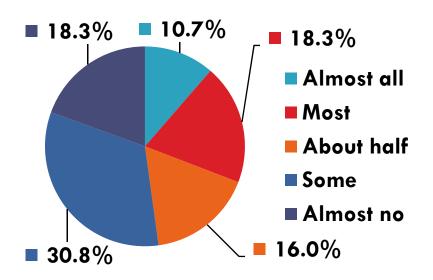




#### Instructor use of IT in courses

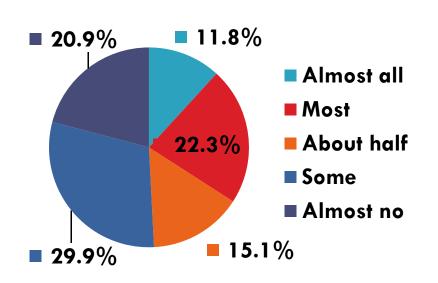
#### **UNCP**

## Provide adequate training for IT used in courses



#### All respondents

## Provide adequate training for IT used in courses

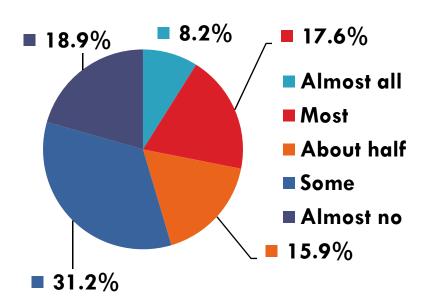




#### Instructor use of IT in courses

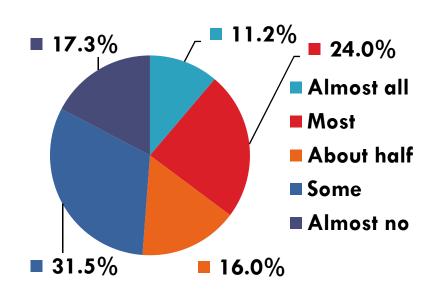
#### **UNCP**

## Understand IT skill levels of students



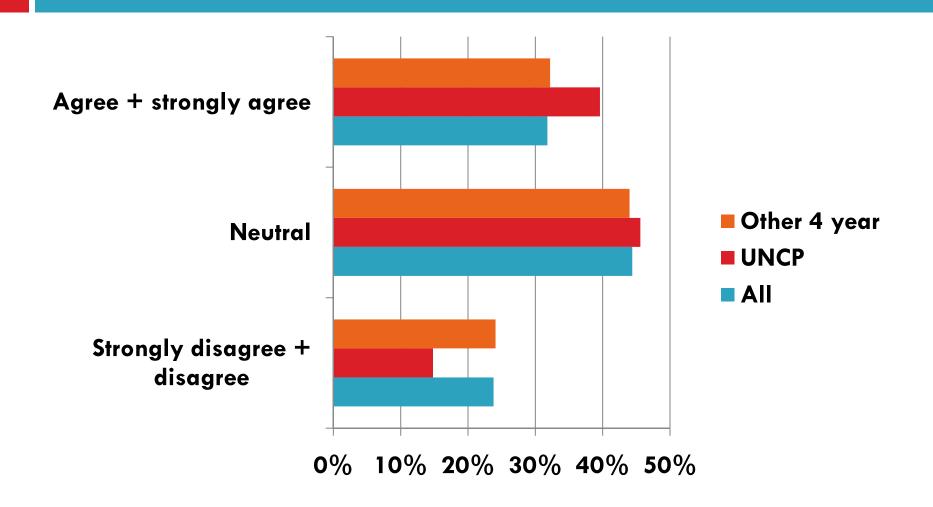
#### All respondents

## Understand IT skill level of students



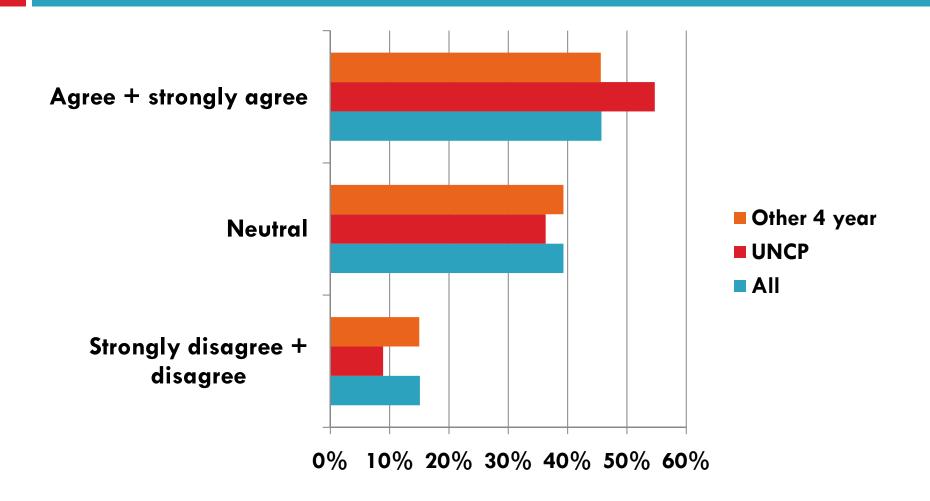


# Student success: "I get more actively involved in courses that use IT."



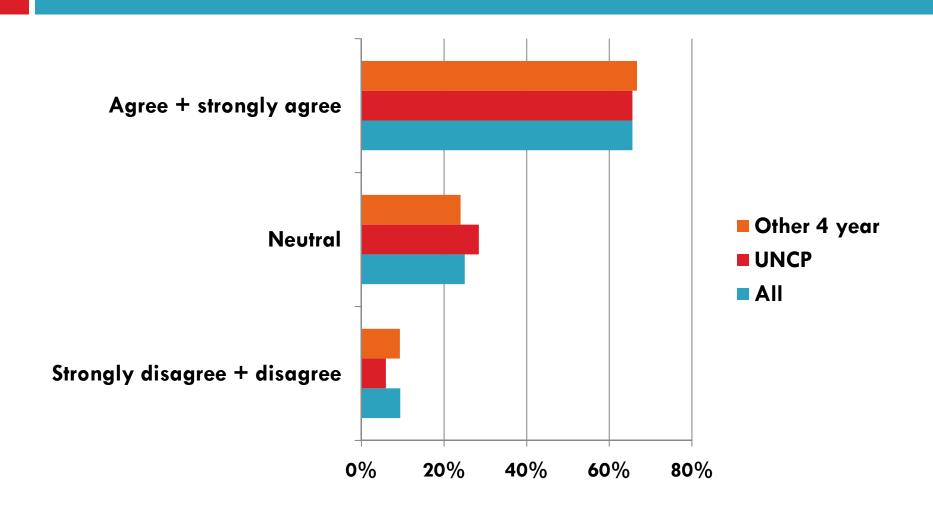


# Student success: "The use of IT in my courses improves my learning."

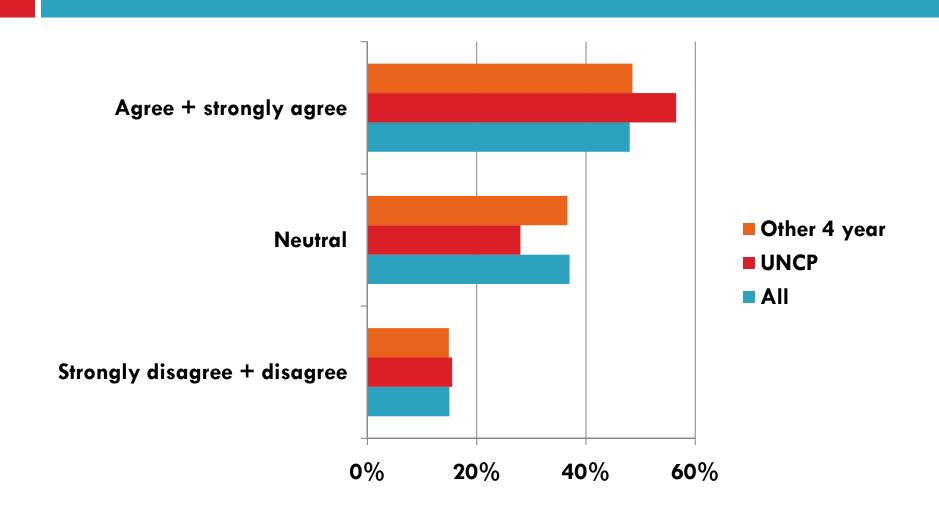




# Student success: "IT makes doing my course activities more convenient."



Student success: "By the time I graduate, the IT I have used in my courses will have adequately prepared me for the workplace."



# Common characteristics of respondents who are positive about the impact of IT

- □ Prefer more IT in courses
- Describe themselves as early adopters of technology
- More positive about CMS experiences
- More positive about availability of campus IT services



More likely to say instructors use IT effectively

## Social Networking

"I can hardly remember when Facebook didn't exist. It would be very hard to adjust if it were to disappear. It is useful to keep in touch with my family back home, communicate about course work, and share photos."

-- An ECAR participant

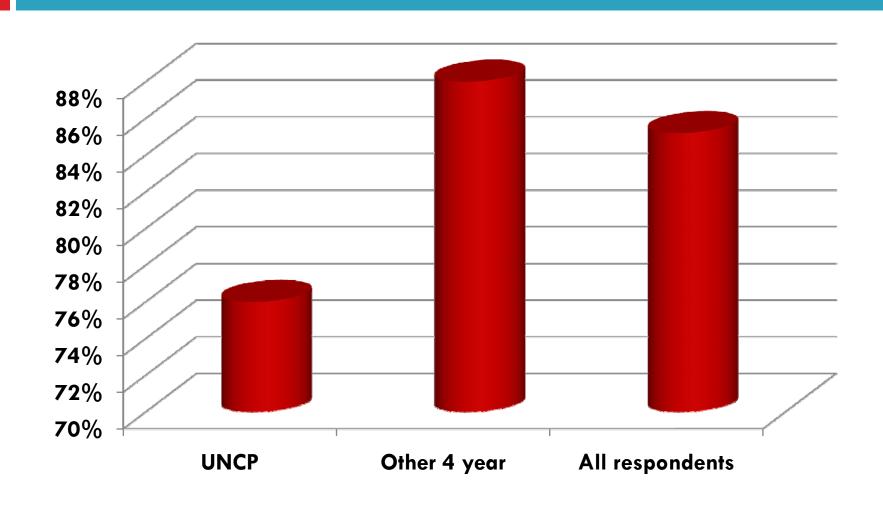


## Social Networking Sites (SNSs)

#### General Observations

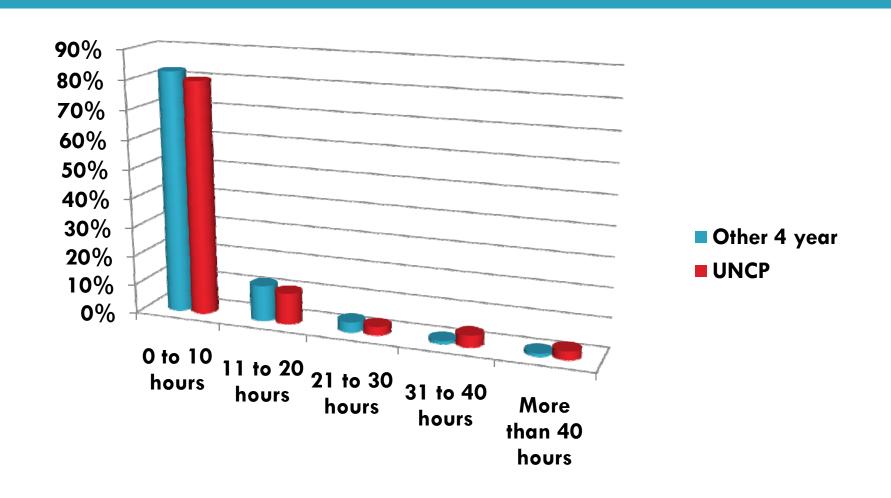
- Facebook most common SNS (among 4 year+)
- Net Gen students most avid users
- Most students use SNSs reasonably and moderately
- Not very concerned about privacy/security issues
- Common practice to place restrictions on profiles
- Average about an hour a day using SNSs
- Most friends are people they have met
- Communicating with classmates common

### # of students who use SNSs





# Hours per week use SNSs



### Time-consuming nature of SNSs

□ "I used to check these sites a million times a day. Now I try to limit myself to four hours/week on MySpace and seven hours/week on Facebook."

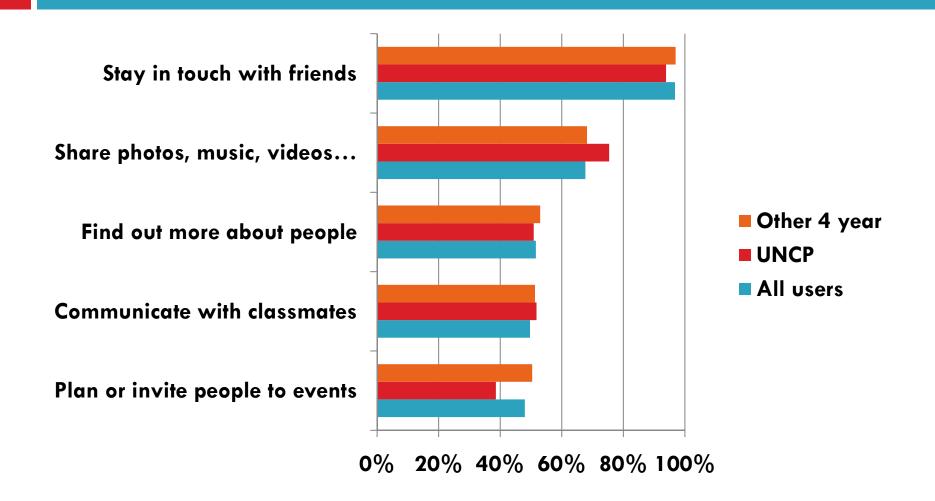
--junior music education major

"I should be majoring in procrastination.
Facebook is a great procrastination tool.
It's always up."

--female sophomore

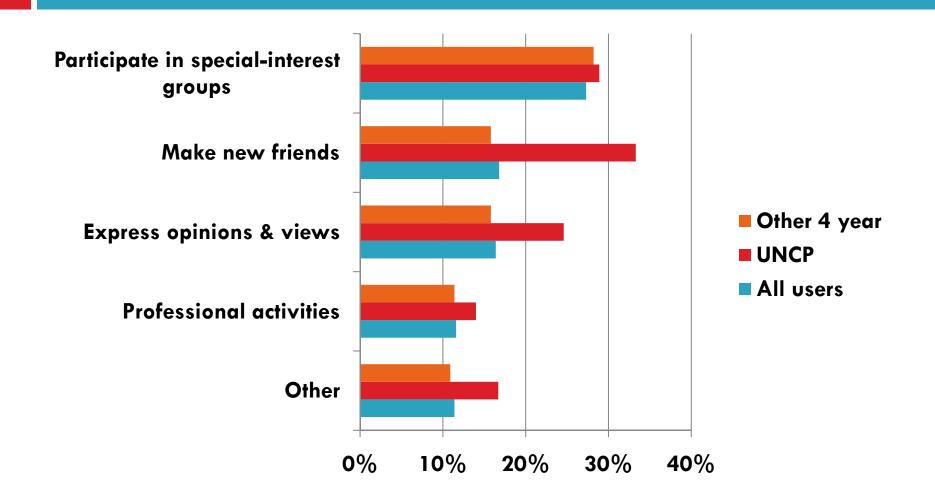


#### How SNSs Are Used



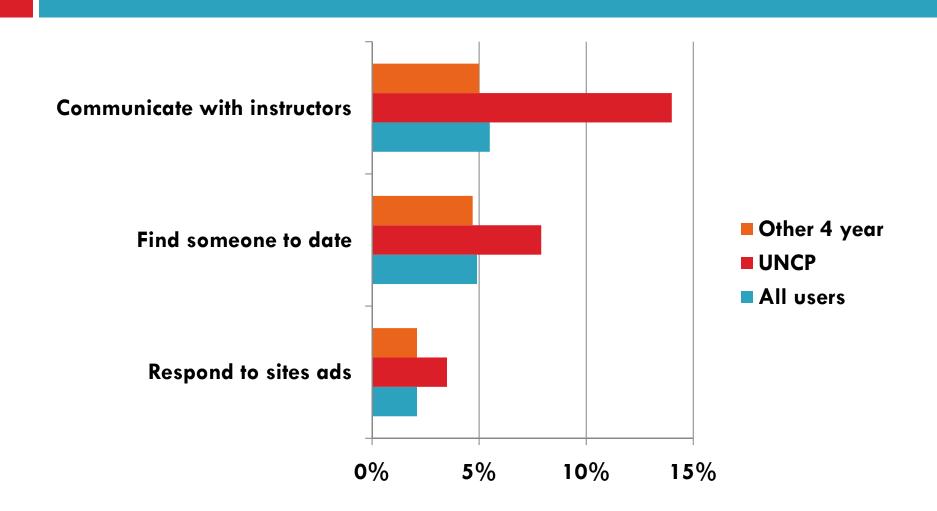


#### How SNSs Are Used



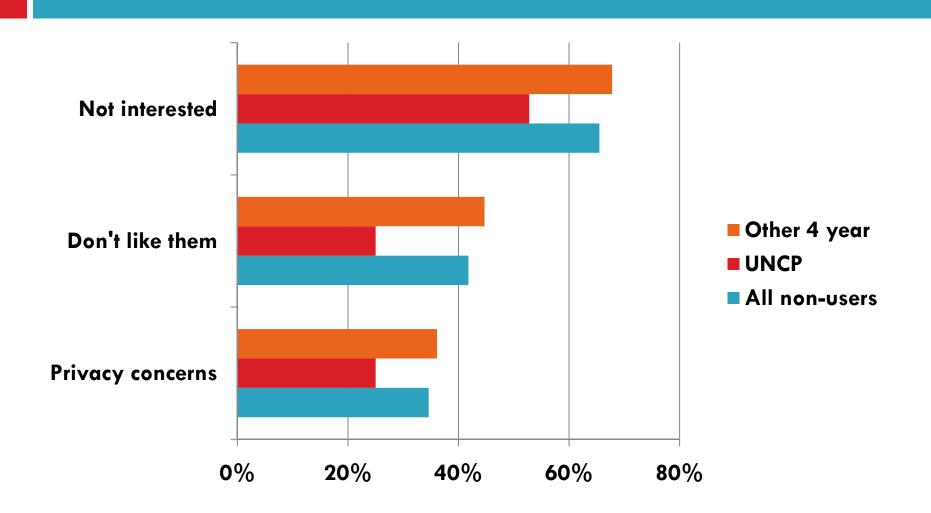


### How SNSs Are Used

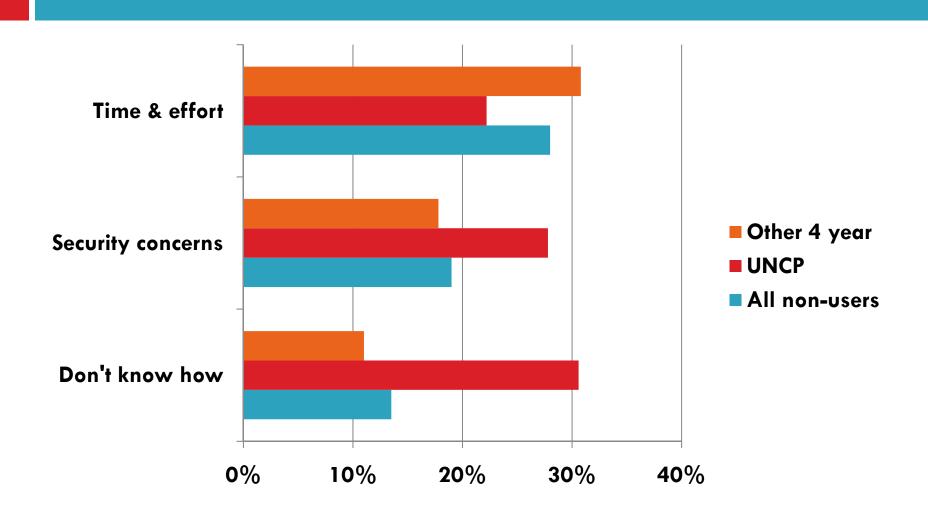




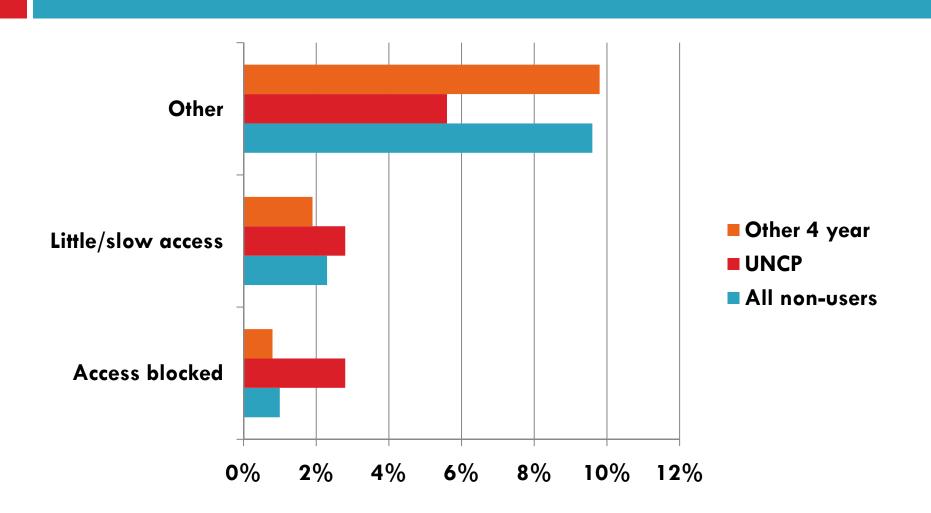
### Reasons for not participating in SNSs



### Reasons for not participating in SNSs



### Reasons for not participating in SNSs





# SNSs Users' Concerns about Privacy & Security: Sample quotes

- "I use a lot of the social networking sites. I have had many, many, many lectures on cyberstalking and what not to post about myself on the Internet. I think that students are smarter than older people give us credit for."
- "A few years ago I applied for a job to work as a digital editor and the social networking sites I was using at the time helped me gain notice of the work I am capable of doing. In the end, it really helped influence the employer to hire me."



# SNSs Users' Concerns about Privacy & Security: General Observations

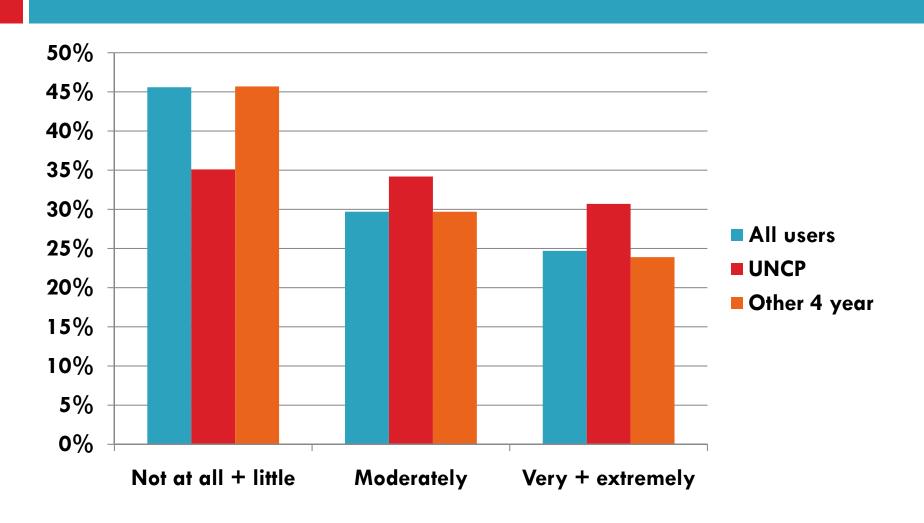
- Common for all age groups to reveal name & photo on SNS profiles
- Younger respondents more likely to all types personal info



- Females less likely to reveal directly identifying info (last name, cell phone, home phone or address)
- Most respondents place restrictions on who can access profiles; nearly half put many restrictions on them (younger more than older)

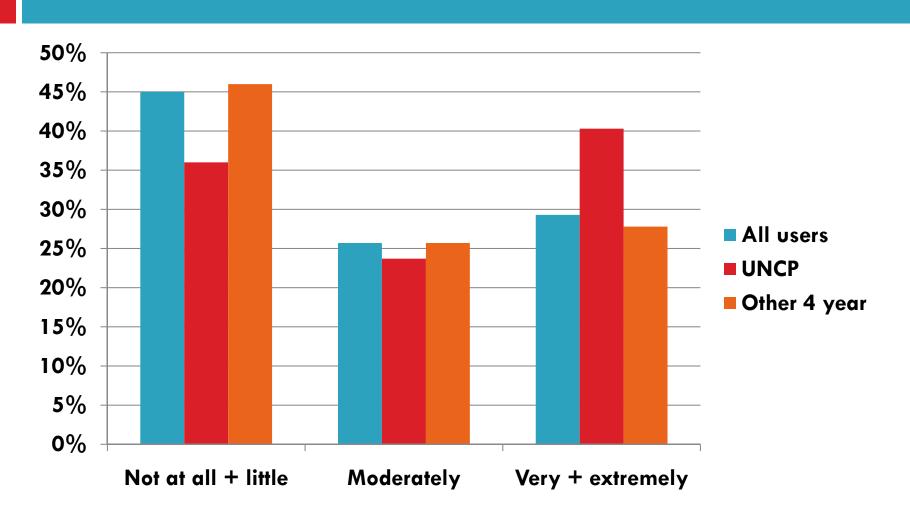


# Concerns about SNS Privacy & Security: Misuse of information



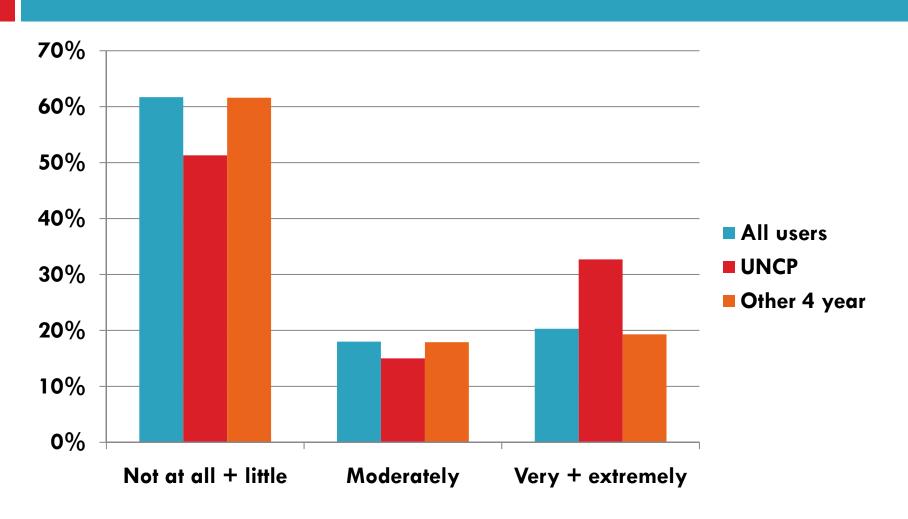


# Concerns about SNS Privacy & Security: Security problems

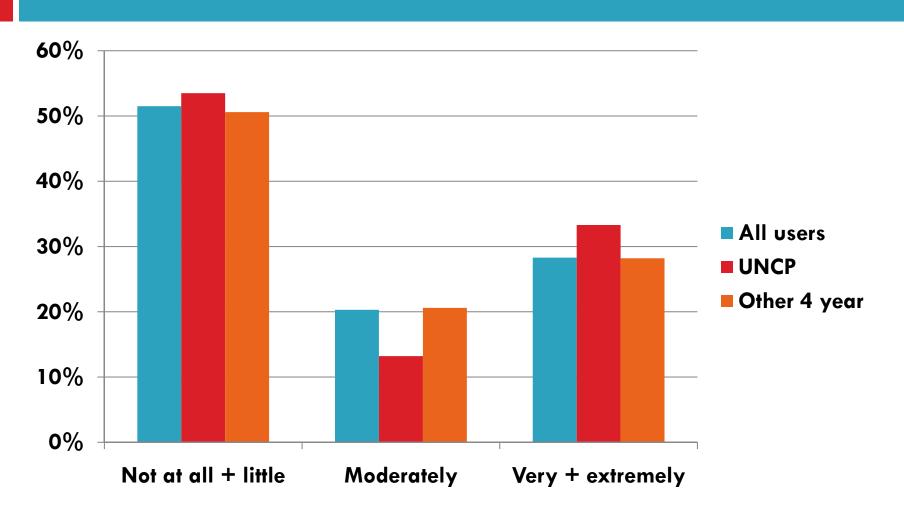




# Concerns about SNS Privacy & Security: Cyberbullying/cyberstalking

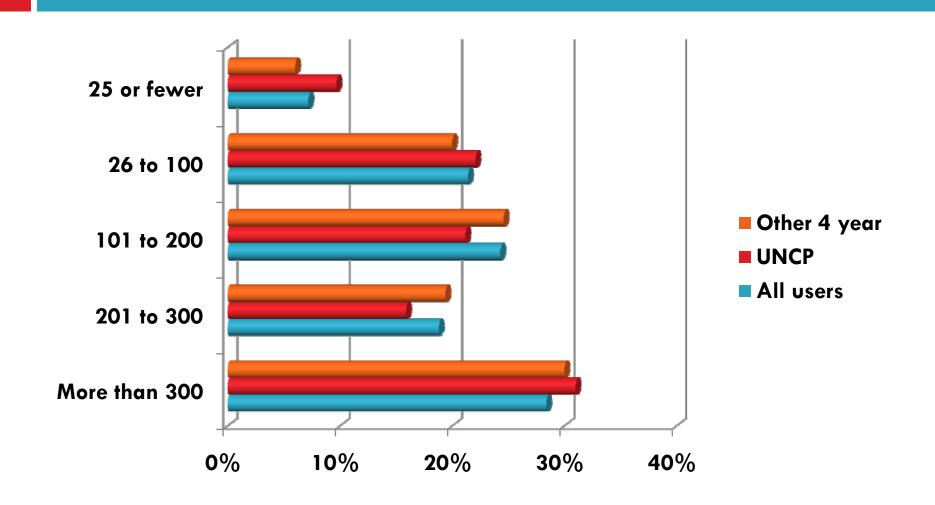


# Concerns about SNS Privacy & Security: Leaving history





### Number of friends on SNSs





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