

Workshop 26: Recruiting Women

Schedule and outcomes Identifying and locating "low-hanging fruit" and 7:00their influencers 8:30 Leveraging others' work: Local programs, initiatives, and organizations that can help Break Developing messages that reflect women's and 8:45girls' values-and those of their influencers 10:00 Choosing media for communicating messages Assessing your recruiting projects

NSF



Strategic Planning for Recruiting Women into Undergraduate Computing: Harvesting the Low-Hanging Fruit

An NCWIT Extension Services For Undergraduate Programs Workshop

Lecia J. Barker and J. McGrath Cohoon Senior Research Scientists National Center for Women & IT





Identify "Low-Hanging Fruit"

Criteria

Largest majors

Contact possibilities already available Your program and their interests

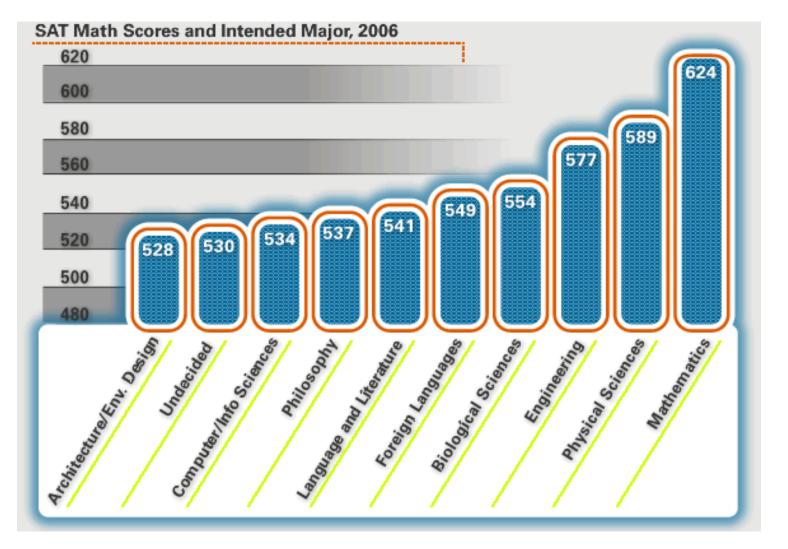


Awards #0533580 #0533565

NSF



Majors with Demonstrated Math Competence



Awards #0533580 #0533565

NSF



15 Largest Majors in the U.S.

Table 1: Bachelor's Degrees Awarded 2004-2005 in the U.S.

Major	Degrees awarded	Major	Degrees award ed
Business	308,597	English language, literature	54,402
Social sciences	126,037	Computer and information sciences	51,291
Education	107,636	Liberal arts and sciences	45,006
Psychology	85,997	History	31,493
Visual and performing arts	78,955	Physical sciences, chemistry	18,970
Communication, journalism	73,146	Foreign languages, literatures, linguistics	18,473
Engineering	66,005	Mathematics, statistics	14,410
Biological, biomedical sciences	65,437	Source: National Center for Education Statistics, Data Digest	

NSF

Awards



What About CS Might Interest Them?

Could they double major? Do you have a minor? Do you have tracks/emphases?

- Computational biology
- HCI
- Media computation
- Scientific computing
- Graphics
- Games







Do You Have Access to Students Already?

CS-Zero courses Service courses (e.g., to engineering students required to take CS) Literacy courses

Summer bridge

Other:





Locate Your Audience

On Campus Undecided students Introductory computing courses Computing service courses Student organizations Greek organizations

Off Campus High schools Community colleges Local businesses





Two audiences: Girls/women, their influencers

Family Friends Teachers Guidance counselors Extracurricular group leaders Celebrities Boys Companies



NSF Awards #0533580 #0533565



Leverage Your Existing Assets

Tired of trying to do it all yourself?

Losing footing in your academic career?



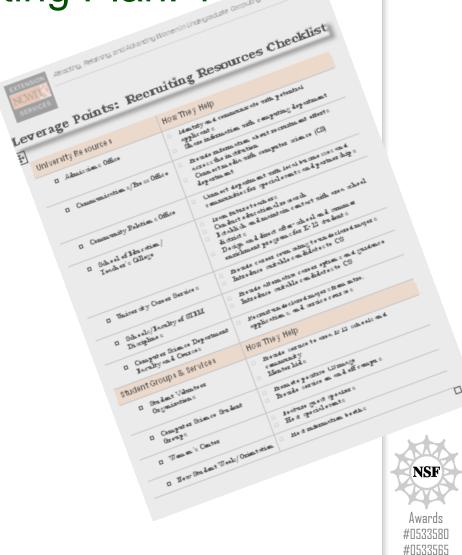
NSF Awards #0533580 #0533565



Developing Your Recruiting Plan: 1

Answer questions on pp. 3-4 Review and add to pp. 6-7

Share your ideas for finding low-hanging fruit and who can help you get it





Tailor Message and Media





For Women and Their Influencers





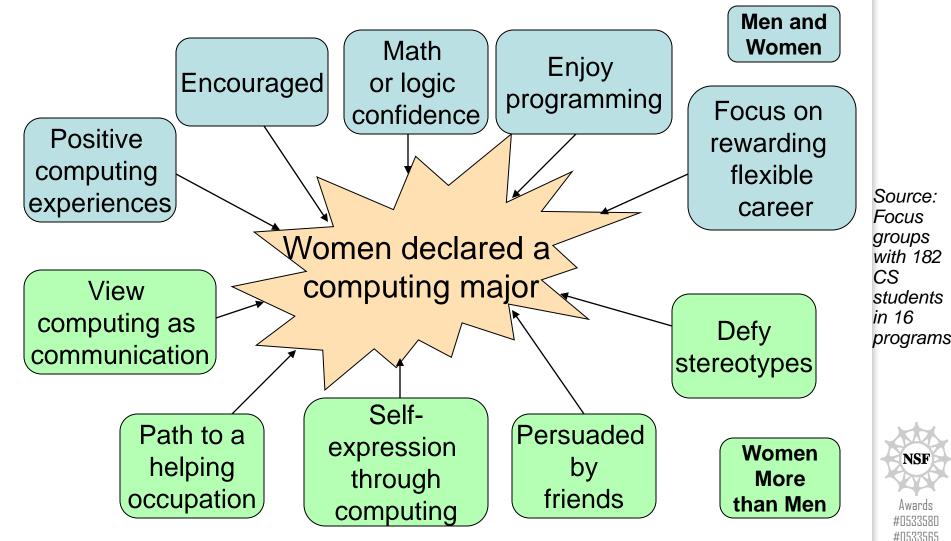
Which Messages Do All Audiences Need to Hear?

- Job projections (BLS): Computing and mathematical occupations will grow 25% by 2016
- High salaries
- Flexibility: industry, geographic
- Social relevance
- Work with others
- Time with family





Go Beyond What Attracted Current Students





Specific Audiences' Needs

What existing NEED or GOAL or INTEREST of the audience can be met by studying CS? How will these be met?





Department of Biology

Biology & Biology-Chemistry Majors

NSF

Awards



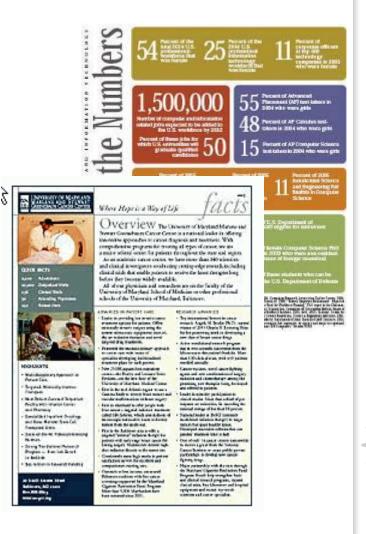
Overcoming Objections, Biases

Cognitive dissonance: we attend to what we already believe or want to believe Offer quality evidence Assure them that they can be successful



What media do they pay attention to?

- Direct contact (e.g., send students to high school classes)
- Media (television, radio, newspapers)
- Fact sheets
- Posters (e.g., from Grace Hopper conference)



NSF

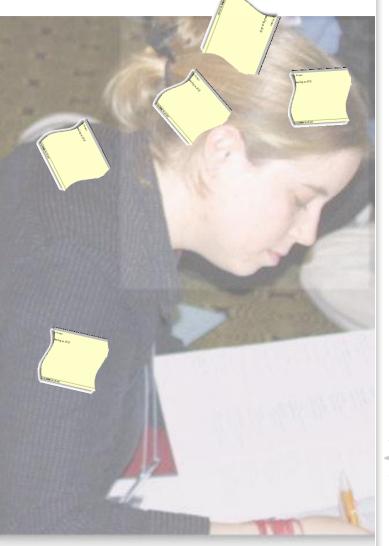
Awards



Make Your Message Stick

Use mnemonic devices

- Images
- Rhymes
- Acronyms
 Use multiple media



NSF

Awards



Will it Really Work?

Test with intended audience Focus group, individuals Encourage honesty Ask them what your message means to them and whether it influences their intended behaviors

If recycling existing materials, test these, too!





Practice Tailoring Messages

In discussion groups, brainstorm messages for women and their influencers

- Advisors on campus
- Undeclared majors
- Teachers
- Biology majors
- Guidance counselors

- Undeclared engineering students
- Career
 services/financial aid
- Campus paper
- High school students

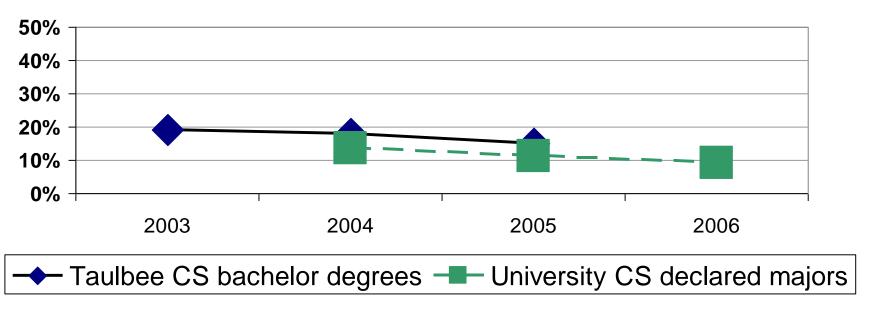
NSF

Other



Track and Report Results

Women's Representation in Computer Science Source: CRA Taulbee data and University enrollment data

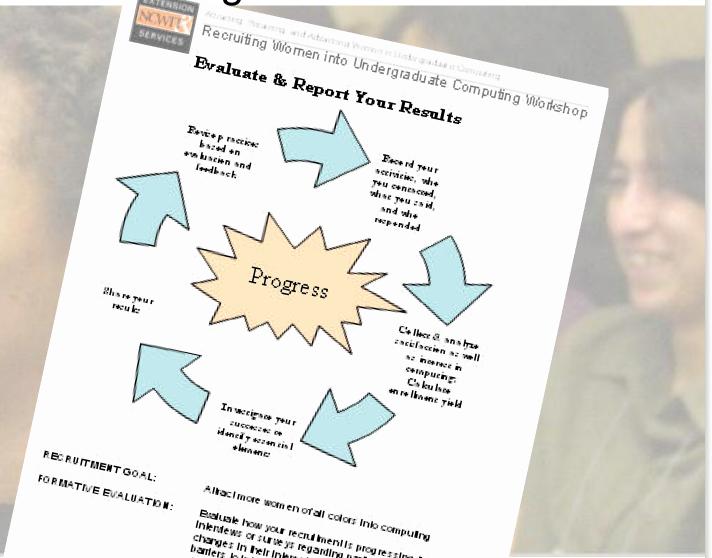


Awards #0533580 #0533565

NSF



Measure Your Progress over Time



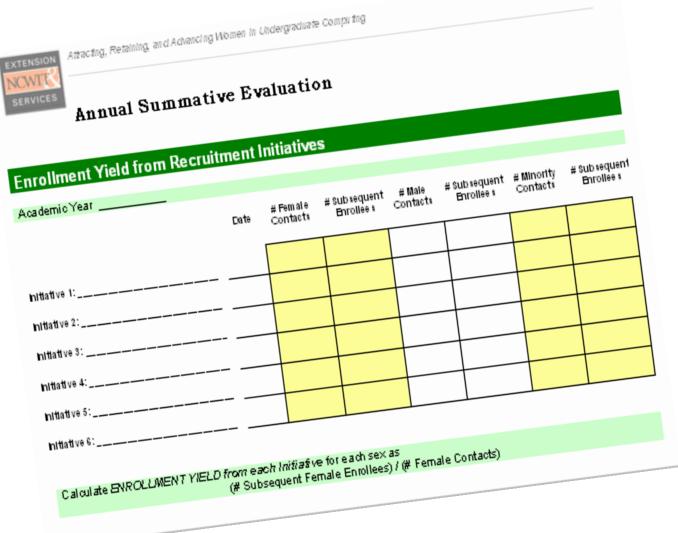
NSF

Awards

#0533580



Track Your Numbers







For More...

www.ncwit.org

Extension Services for Undergraduate Programs

Feedback for us regarding the Workbook?

