

Poll Description: You're graduating in a few months, how does the idea of finding a job play into your feelings about your major? Please rank the feelings I described 1 through 5 (1 being the most relevant to how you feel and 5 being the least relevant to how you feel). Please, NO TIES!
 Thank you!

Results: Excluding 7 ties, there were 27 ballots and 19 different ballot types. (see: detailed ballot, reverse)

Preference Schedule: (excluding ties)

N=27
 n=5

4	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	C	C	B	B	A	B	B	B	B	C	C	C	C	C	D	E	E	E
D	A	D	A	A	B	D	D	C	C	A	A	A	E	D	E	E	A	A
B	B	B	D	C	D	A	C	A	D	E	B	D	A	E	B	A	D	D
C	E	E	E	E	E	E	E	E	E	D	D	E	D	B	D	B	B	C
E	D	A	C	D	C	C	A	D	A	B	E	B	B	A	A	C	C	B

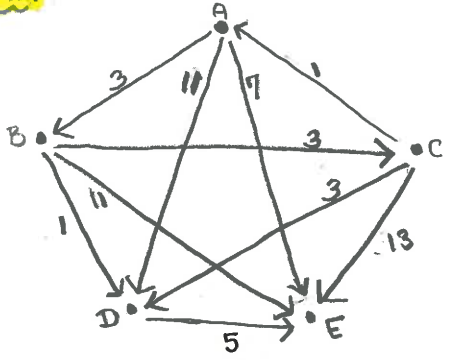
KEY:

- A - "I am content regardless of how it will impact future job options"
- B - "I don't feel regret - my major will lead to MORE job options"
- C - "I don't feel regret - I have other strengths that will help me get a job."
- D - "I feel regret - there's another subject I would have rather majored in"
- E - "I feel regret - my major will lead to FEWER job options."

One-to-one Comparisons:

- A:B 15:12 B:C 15:12 C:D 15:12 D:E 16:11
- A:C 13:14 B:D 14:13 C:E 20:7
- A:D 19:8 B:E 19:8
- A:E 17:10

Graph:



Smith Set = {A, B, C}

- $D_A = \{A, C, B\}$
- $D_B = \{B, A, C\}$
- $D_C = \{C, B, A\}$
- $D_D = \{D, A, B, C\}$
- $D_E = \{E, A, B, C, D\}$

Smallest dominating set

Plurality: $W = \{C\}$
 A-5 first pl. votes
 B-8 " " " "
 C-11 " " " " so C wins
 D-1 " " " "
 E-2 " " " "

Runoff: $W = \{B\}$
 -elim D(1), E(2), A(5)
 Runoff B:C
 B-12 15:12 so B wins.

Elimination: $W = \{C\}$
 -elim D(1)
 E(2)
 A, B, C remain:
 A-8
 B-8
 C-11
 -elim A, B so C wins.

Coombs: $W = \{B\}$
 A-6 last pl. votes
 B-4 " " " "
 C-6 " " " "
 D-6 " " " "
 E-5 " " " "
 -elim A, C, D (6)
 B and E remain:
 B-8 last pl. votes
 E-19 " " " "
 19 > 8 so B wins

Pairwise: $W = \{A, B, C\}$
 using p.s. above:
 A-3 pairwise points
 B-3 " "
 C-3 " "
 D-1 " "
 E-0 " "

Beatpath: $W = \{A\}$
 $A \triangleright B (3 > 1)$
 $A \triangleright C (3 > 1)$
 No NSC can win } A \triangleright E
 so D, E $\notin W$ } A \triangleright D
 so A wins.

Total pairwise pts: 10 pairwise points

No majority cand.
 To be a maj. cand, cand needs $> N/2$ first pl. votes = $27/2 = 13.5$
 A-5 B-8 C-11 D-1 E-2 so no maj. cand.

No cond. cand.
 To be a cond. cand, need $n-1$ pairwise pts (A:B, C:D, E all have $\leq n-1$)

Ballot Report:

	I am content—regardless of how it will impact future job options	I don't feel regret—my major will lead to MORE job options	I don't feel regret-I have other strengths that will help me get a job	I feel regret—my major will lead to FEWER job options	I feel regret—there's another subject I would have rather majored in
1.	1	4	2	3	5
2.	3	4	2	5	1
3.	2	1	5	5	5
4.	5	1	4	2	3
5.	3	4	2	5	1
6.	1	2	4	5	3
7.	5	5	5	5	5
8.	1	4	2	3	5
9.	2	4	1	5	3
10.	3	1	2	5	4
11.	2	1	4	5	3
12.	3	1	2	5	4
13.	3	1	5	4	2
14.	5	1	4	3	2
15.	4	1	1	5	5
16.	3	1	2	4	5
17.	3	1	1	5	5
18.	2	4	3	5	1
19.	3	1	4	5	2
20.	2	1	3	5	5
21.	3	1	2	5	4
22.	2	3	1	5	4
23.	2	3	4	5	1
24.	3	5	1	4	2
25.	1	2	2	1	1
26.	4	5	1	2	3
27.	2	1	3	5	4
28.	3	4	5	2	1
29.	2	1	4	5	3
30.	1	5	3	5	5
31.	1	4	2	3	5
32.	1	4	2	3	5
33.	2	1	3	5	4
34.	3	5	2	4	1

*Ties designated by red strikethrough

	1	2	3	4	5
1. I am content—regardless of how it will impact future job options	-	17	18	21	29
2. I don't feel regret—my major will lead to MORE job options	16	-	18	23	24
3. I don't feel regret-I have other strengths that will help me get a job	15	13	-	19	28
4. I feel regret—there's another subject I would have rather majored in	12	9	13	-	20
5. I feel regret—my major will lead to FEWER job options	4	8	4	7	-

	1.	2.	3.	4.	5.
1. I am content—regardless of how it will impact future job options	-	17	18	21	29
2. I don't feel regret—my major will lead to MORE job options	16	15	12	4	
3. I don't feel regret-I have other strengths that will help me get a job			18	23	24
4. I feel regret—there's another subject I would have rather majored in			13	9	8
5. I feel regret—my major will lead to FEWER job options				19	28
				13	4
					20
					7
					-

Extra Credit Vote Gradesheet

Name: FEELINGS ABOUT MAJOR

Setup of poll (30):	substantive question	(10)
	$n \geq 5$	(10)
	$N \geq 20$	(10)
Presentation (40):	1 sheet of paper, no glue, no tape, no staples	(10)
	detailed ballots from website	(10)
	1-1 comparison results from website	(5)
	beatpaths results from website	(5)
	few ties, and they are marked	(5)
	organized and legible, question and key	(5)
Analysis (80):	preference schedule and 1-1 comparisons	(15)
	graph with margins	(12)
	Smith set	(5)
	statement about Majority candidate	(2)
	statement about Condorcet candidate	(2)
	credit for no Condorcet candidate?	(10)
	plurality winner(s)	(3)
	runoff winner(s)	(4)
	elimination winner(s)	(6)
	Coombs winner(s)	(6)
	pairwise winner(s)	(6)
	check on pairwise points	(3)
	beatpath winner(s)	(6)

-1 mistake

Grade (of 150 possible points):

149/150