#### **College of Science**

Academic Year 2013 – 2014 (Summer and Fall 2013; Spring 2014)
For Likert Scale Questions, 1 = Strongly Agree and 5 = Strongly Disagree. So, smaller means are more positive than larger means.

Last Modified: 09/06/2013

#### 1. Family Status

#	Answer	Response	%
1	Married, no children	0	0%
2	Married, with children	3	4%
3	Single, no children	65	88%
4	Single, with children	6	8%
	Total	74	100%

#### 2. Residence at time of admission

#	Answer	Response	%
1	In-State	52	72%
2	Metro	3	4%
3	Out-of-State	17	24%
	Total	72	100%

# 3. Number of semesters enrolled to complete your degree (Note: One semester is equal to fall, spring, or summer, resulting in the potential for three semesters in one year)

#	Answer	Response	%
1	Fewer than 8 semesters	12	17%
2	8 semesters	21	29%
3	9 semesters	14	19%
4	10 semesters	13	18%
5	11 semesters	3	4%
6	12 semesters	3	4%
7	13 semesters	5	7%
8	14 semesters	0	0%
9	15 semesters	0	0%
10	16 semesters	1	1%
11	17 semesters	0	0%
12	18 semesters	0	0%
13	19 semesters	0	0%
14	20 semesters	0	0%
15	More than 20 semesters	0	0%
	Total	72	100%

#### 4. While pursuing your degree, did you

	<u> </u>		
#	Answer	Response	%
1	Originally enroll and stay at Marshall	52	70%
2	Transfer from a 2-year institution or community college	9	12%
3	Transfer from another 4-year institution	13	18%
	Total	74	100%

## 5. During the last year of your studies, how many hours a week did you work while attending classes?

#	Answer	Response	%
1	None	17	23%
2	1 - 10	13	18%
3	11 - 20	13	18%
4	21 - 30	17	23%
5	More than 30	14	19%
	Total	74	100%

### 6. Which of the following best describes your educational objective while attending Marshall University?

#	Answer	Response	%
1	Begin my first career	62	84%
2	Advance in current career	3	4%
3	Change career	5	7%
4	Non-career objective	4	5%
	Total	74	100%

### 7. Upon graduation, what was the dollar amount of your educational loan indebtedness?

#	Answer	Response	%
1	No indebtedness	26	36%
2	Up to \$4,999	3	4%
3	\$5,000 - \$9,999	2	3%
4	\$10,000 - \$14,999	8	11%
5	\$15,000 - \$19,999	11	15%
6	Over \$20,000	23	32%
	Total	73	100%

### 8. Did you take part in an internship, practicum or other structured work experience related to your major and anticipated career?

#	Answer	Response	%
1	Yes	49	67%
2	No	24	33%
	Total	73	100%

### 9. If you answered "yes" to the previous question, did that experience increase your ability to secure employment or employment offers?

#	Answer	Response	%
1	Yes	23	48%
2	No	5	10%
3	Insufficient information to answer this question	20	42%
	Total	48	100%

#### 10. When I graduate from Marshall University I plan to (check all that apply)

	graduate no	 	
#	Answer	Response	%
1	Attend graduate school	54	75%
2	Complete additional undergraduate coursework	3	4%
3	Continue to work at the same job I have at present	9	13%
4	Enter the military	1	1%
5	Work for a private sector company or corporation	14	19%
6	Work for a local, state, or federal agency	18	25%
7	Work for a volunteer or service organization, e.g. Peace Corps, AmeriCorps, City Year, etc.	2	3%
8	Work for a non- profit organization, e.g. hospital, university, public school, etc.	8	11%
9	Begin my own business	3	4%
10	Start or raise a	6	8%

	family		
11	Take time off (to travel, etc.)	5	7%
12	Undecided or no plans	5	7%
13	Other	6	8%

#### Other

Law School

I have had to deal with a lot of crap this semester so I need a break. I plan on continuing school in the fall. I want to take time to still figure out what I want to do. Help family members out who have helped me over the years. etc.

law school

Apply to Medical School Law school

# 11. If you plan to continue your education and have applied to institutions of higher education, please check all that apply: I have applied to institutions of higher education

#	Answer	Response	%
1	Within 50 miles of my college town	15	31%
2	Within 50 miles of my home town	9	18%
3	Over 50 miles, but within 500 miles of my college town	15	31%
4	Over 50 miles, but within 500 miles of my home town	14	29%
5	In WV	24	49%
6	In at least one of WV's neighboring states (OH, KY, VA, MD, PA)	21	43%
7	Within the US, but outside the above boundaries	14	29%
8	Internationally	2	4%
9	Other (please specify)	5	10%

Other (please specify)
have not applied yet
Marshall
Illinois
Have not applied yet, will probably wait until the spring semester
At Marshall University

#### 12. Have you been accepted by a higher-level educational program?

#	Answer	Response	%
1	Yes	26	50%
2	No	26	50%

## 13. If you have been accepted by a higher level institution, what institution do you plan to attend?

Text Response
Marshall University
Marshall University M.S. Biological Sciences
NOT SURE
Life University
Marshall University
Alderson Broaddus University
University of Kentucky
University of Central FI
Ohio State University
WVSOM
West Virginia University
Marshall University Joan C Edwards School of Medicine
Marshall university school of pharmacy
Joan C Edwards School of Medicine
Marshall University School of Medicine
Ohio State University College of Optometry
University of Pittsburgh
NKU Chase School of Law
University of Illinois in Champaign-Urbana
Boston University
Marshall university
Marshall University School of Pharmacy
Application Process for Marshall's grad program
Marshall University Joan C Edwards School of Medicine
Marshall University
University of Arizona
Marshall University

Statistic	Value
Total Responses	27

#### 14. While pursuing my degree at Marshall University

#	Question	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	Total Responses	Mean
1	I developed the ability to write effectively.	24	34	8	4	2	72	1.97
2	I developed the ability to use mathematics in everyday life.	11	36	18	6	1	72	2.31
3	I learned to evaluate information critically and to use it effectively.	23	42	7	0	0	72	1.78
4	I gained expertise in the use of technology important in my field of study.	26	30	14	0	2	72	1.92
5	I acquired sufficient skills and knowledge to prepare for career-related positions.	21	36	11	4	0	72	1.97

6	I developed the ability to express myself effectively through speaking.	22	36	10	3	1	72	1.96
7	I developed multicultural and global perspectives.	14	34	17	4	3	72	2.28
8	Writing intensive courses helped me to improve my writing skills.	18	33	6	8	7	72	2.35
9	My classes challenged me to analyze and evaluate issues and to solve realworld problems in a manner that is ethical and supportive of our civic well being.	20	39	7	4	2	72	2.01
10	I broadened my appreciation for the arts.	11	26	23	8	4	72	2.56

11	My capstone course challenged me to do my best work.	25	28	13	1	5	72	2.07
12	I learned to examine issues from multiple perspectives.	27	32	12	1	0	72	1.82
13	I learned to use what I know to solve novel problems.	29	32	9	2	0	72	1.78
14	I learned to assess my own values and to examine other viewpoints and credible evidence.	25	36	11	0	0	72	1.81

Statist	I devel oped the ability to write effecti vely.	l develo ped the ability to use mathe matics in everyd ay life.	l learne d to evalu ate inform ation critical ly and to use it effecti vely.	I gaine d expert ise in the use of techn ology import ant in my field of study.	I acquir ed suffici ent skills and knowl edge to prepa re for career - relate d positi ons.	l devel oped the ability to expre ss mysel f effecti vely throu gh speak ing.	I develo ped multicul tural and global perspe ctives.	Writi ng inten sive cour ses help ed me to impr ove my writin g skills .	My classe s challe nged me to analy ze and evalu ate issues and to solve realworld proble ms in a mann er that is ethica I and suppo rtive of our civic well being.	l broade ned my apprec iation for the arts.	My capst one cours e challe nged me to do my best work.	learned to examin e issues from multiple perspe ctives.	l learn ed to use what I know to solve novel probl ems.	l learn ed to asses s my own value s and to exami ne other viewp oints and credib le evide nce.
Min Value	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Max Value	5	5	3	5	4	5	5	5	5	5	5	4	4	3
Mean	1.97	2.31	1.78	1.92	1.97	1.96	2.28	2.35	2.01	2.56	2.07	1.82	1.78	1.81
Varian	0.93	0.78	0.37	0.81	0.68	0.74	0.96	1.55	0.86	1.12	1.22	0.57	0.60	0.47

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Stand ard Deviat ion	0.96	0.88	0.61	0.90	0.82	0.86	0.98	1.25	0.93	1.06	1.10	0.76	0.77	0.68
Total Respo nses	72	72	72	72	72	72	72	72	72	72	72	72	72	72

#### 15. Now that I have completed my degree,

#	Question	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	Total Responses	Mean
1	I feel adequately prepared for a career and/or graduate or professional study in my major field.	23	32	10	6	1	72	2.03
2	I believe that Marshall University's program in my major field is of high quality.	25	28	12	5	2	72	2.04
3	I would recommend to others that they study the same program at Marshall.	28	30	7	6	1	72	1.92
4	I would recommend Marshall to prospective students.	34	26	7	2	3	72	1.81

Statistic	I feel adequately prepared for a career and/or graduate or professional study in my major field.	I believe that Marshall University's program in my major field is of high quality.	I would recommend to others that they study the same program at Marshall.	I would recommend Marshall to prospective students.
Min Value	1	1	1	1
Max Value	5	5	5	5
Mean	2.03	2.04	1.92	1.81
Variance	0.93	1.05	0.95	1.03
Standard Deviation	0.96	1.03	0.98	1.02
Total Responses	72	72	72	72

#### 16. Please rate your level of satisfaction with the quality of the following at Marshall:

#	Question	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Total Responses	Mean
1	Teaching	17	42	8	4	1	72	2.03
2	Advising	17	14	19	16	6	72	2.72
3	Academic Support Services	8	27	25	7	5	72	2.64
4	Classroom/Lab Facilities	10	34	12	13	3	72	2.51

Statistic	Teaching	Advising	Academic Support Services	Classroom/Lab Facilities
Min Value	1	1	1	1
Max Value	5	5	5	5
Mean	2.03	2.72	2.64	2.51
Variance	0.70	1.64	1.08	1.15
Standard Deviation	0.84	1.28	1.04	1.07
Total Responses	72	72	72	72

#### 17. When I graduate, I plan to

#	Answer	Response	%
1	Be employed	36	50%
2	Further my education	56	78%
3	Other	2	3%

Other	
Start a business	
Take a break, then start back up in the fall.	

### 18. If you plan to be employed after graduation, will your job be in the career path you have chosen?

#	Answer	Response	%
1	Yes	20	57%
2	No	2	6%
3	Don't know yet	13	37%
	Total	35	100%

#### 19. If you plan to be employed after graduation, will your job be in your major field?

#	Answer	Response	%
1	Yes	19	54%
2	No	2	6%
3	Don't know yet	14	40%
	Total	35	100%

#### 20. If you plan to be employed after graduation, will your job be

#	Answer	Response	%
1	In WV?	15	43%
2	In KY, OH, PA, VA, or MD?	9	26%
3	In a state other than one mentioned above?	10	29%
4	In a country other than the US?	1	3%
	Total	35	100%

### 21. If you plan to be employed after graduation, will your job be (choose all that apply):

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#	Answer	Response	%
1	within 50 miles of your college town?	17	49%
2	within 50 miles of your home town?	9	26%
3	over 50 miles, but within 500 miles of your college town?	10	29%
4	over 50 miles, but within 500 miles of your home town?	9	26%
5	over 500 miles from your college town	7	20%
6	over 500 miles from your home town	6	17%

#### 22. If you have accepted employment, what will be your starting salary?

		<u> </u>	iso your oran	
#	Answer		Response	%
1	\$10,000 or less		1	3%
2	\$10,001 - \$15,000		0	0%
3	\$15,001 - \$20,000		1	3%
4	\$20,001 - \$25,000		1	3%
5	\$25,001 - \$30,000		1	3%
6	\$30,001 - \$35,000		1	3%
7	\$35,001 - \$40,000		0	0%
8	\$40,001 - \$45,000		1	3%
9	\$45,001 - \$50,000		1	3%
10	More than \$50,000		3	9%
11	I have not yet accepted employment		24	71%
	Total		34	100%

#### 23. For the position indicated above, who is your employer?

Text Response	
None of your business	
Marshall University Sustainability Department	
Vandalia	
Greater Huntington Park & Recreation District	
Disney	
Dell SecureWorks	

Statistic	Value
Total Responses	6

#### 24. Did you use Career Services to help you with your career path?

#	Answer	Response	%
1	Yes	15	21%
2	No	55	79%
	Total	70	100%

### 25. If you answered "yes" to the previous question, please indicate all services used.

#	Answer	Response	%
1	Marshall JobTrax	9	60%
2	Resume assistance	12	80%
3	Career Advising	4	27%
4	Mock Interviewing	7	47%
5	On-campus recruitment event	1	7%
6	Career Fair	5	33%
7	Other	0	0%

Other

### 26. Please indicate your level of satisfaction with these elements of your experience in the College of Science:

#	Question	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Total Responses	Mean
1	Availability and quality of academic advising	19	18	17	10	7	71	2.55
2	Availability of courses	11	36	14	7	3	71	2.37
3	Responsiveness to students with special needs	10	24	35	1	0	70	2.39
4	Professionalism/Scholarship of faculty	14	38	14	4	1	71	2.15
5	Development of critical thinking skills	19	39	9	3	1	71	1.99

Statistic	Availability and quality of academic advising	Availability of courses	Responsiveness to students with special needs	Professionalism/Scholarship of faculty	Development of critical thinking skills
Min Value	1	1	1	1	1
Max Value	5	5	4	5	5
Mean	2.55	2.37	2.39	2.15	1.99
Variance	1.68	1.01	0.56	0.73	0.70
Standard Deviation	1.30	1.00	0.75	0.86	0.84
Total Responses	71	71	70	71	71

## 27. Please indicate your level of satisfaction with these elements of your experience in the Biological Sciences Program.

#	Question	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Total Responses	Mean
1	The required courses in BSC were valuable and relevant preparation for advancing to the next stage of my career.	5	7	3	1	0	16	2.00
2	There was a sufficient number and variety of elective courses in the Biological Science curriculum.	4	7	2	3	0	16	2.25
3	BSC courses encourage thinking and analytic skills.	7	9	0	0	0	16	1.56
4	BSC courses promote improved communication skills.	6	5	3	2	0	16	2.06
5	BSC program provides adequate experience	4	8	4	0	0	16	2.00

	with and use of computers.							
6	Courses in BSC effectively integrate modern research activities with more traditional material.	6	6	4	0	0	16	1.88
7	Lab activities for BSC were relevant and important to the development of difficult concepts.	5	5	3	3	0	16	2.25
8	Lab activities for BSC courses provided active student involvement and participation for the development for the basic technical skills.	6	7	2	1	0	16	1.88
9	Members of the BSC faculty appeared to	9	6	1	0	0	16	1.50

	be competent and knowledgeable in their fields.							
10	Members of the BSC faculty appeared to be fair and unbiased towards students regardless of race, gender, age and/or disability.	9	6	1	0	0	16	1.50
11	Members of the BSC faculty were generally accessible and friendly.	7	9	0	0	0	16	1.56
12	I would recommend Marshall University to a friend who wished to major in Biological Science.	9	5	2	0	0	16	1.56

Statisti	The require d course s in BSC were valuable e and relevan t preparation for advancing to the next stage of my career.	There was a sufficie nt numbe r and variety of electiv e course s in the Biologi cal Scienc e curricul um.	BSC course s encour age thinkin g and analyti c skills.	BSC courses promote improved communi cation skills.	BSC progra m provide s adequa te experie nce with and use of comput ers.	Cours es in BSC effecti vely integr ate moder n resear ch activiti es with more traditio nal materi al.	Lab activities for BSC were relevant and importa nt to the develop ment of difficult concept s.	Lab activities for BSC courses provided active student involve ment and participa tion for the develop ment for the basic technica I skills.	Members of the BSC faculty appeared to be competen t and knowledg eable in their fields.	Memb ers of the BSC faculty appear ed to be fair and unbias ed toward s studen ts regardl ess of race, gender , age and/or disabili ty.	Memb ers of the BSC faculty were genera lly access ible and friendl y.	I would recom mend Marshal I Univers ity to a friend who wished to major in Biologic al Science
Min Value	1	1	1	1	1	1	1	1	1	1	1	1
Max Value	4	4	2	4	3	3	4	4	3	3	2	3
Mean	2.00	2.25	1.56	2.06	2.00	1.88	2.25	1.88	1.50	1.50	1.56	1.56
Varian ce	0.80	1.13	0.26	1.13	0.53	0.65	1.27	0.78	0.40	0.40	0.26	0.53
Standa rd Deviati on	0.89	1.06	0.51	1.06	0.73	0.81	1.13	0.89	0.63	0.63	0.51	0.73
Total Respo	16	16	16	16	16	16	16	16	16	16	16	16

nses	

## 28. Please indicate your level of satisfaction with these elements of your experience in the Chemistry Program.

#	Question	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Total Responses	Mean
1	There were sufficient number and variety of elective courses in the Chemistry curriculum.	0	1	1	1	0	3	3.00
2	Chemistry courses encourage thinking and analytic skills.	1	1	1	0	0	3	2.00
3	Chemistry courses promote improved communication skills.	1	1	0	1	0	3	2.33
4	Chemistry program provides adequate experience with and use of computers.	0	3	0	0	0	3	2.00
5	Lab activities for Chemistry courses were relevant and important to	0	3	0	0	0	3	2.00

	the development of difficult concepts.							
6	Lab activities for Chemistry courses provided active student involvement and participation for the development for the basic technical skills.	0	3	0	0	0	3	2.00
7	Members of the Chemistry faculty appeared to be competent and knowledgeable in their fields.	2	0	0	1	0	3	2.00
8	Members of the Chemistry faculty appeared to be fair and unbiased towards students regardless of race, gender, age and/or disability.	2	1	0	0	0	3	1.33

9	Members of the Chemistry faculty were generally accessible and friendly.	1	1	0	1	0	3	2.33
10	I would recommend Marshall University to a friend who wished to major in Chemistry.	2	0	0	1	0	3	2.00

Statistic	There were sufficient number and variety of elective courses in the Chemistr y curriculu m.	Chemist ry courses encoura ge thinking and analytic skills.	Chemistry courses promote improved communicat ion skills.	Chemistr y program provides adequat e experien ce with and use of compute rs.	Lab activities for Chemistry courses were relevant and important to the developm ent of difficult concepts.	Lab activities for Chemistry courses provided active student involveme nt and participati on for the developm ent for the basic technical skills.	Members of the Chemistry faculty appeared to be competent and knowledgea ble in their fields.	Member s of the Chemist ry faculty appeare d to be fair and unbiase d towards students regardle ss of race, gender, age and/or disabilit y.	Member s of the Chemist ry faculty were generall y accessi ble and friendly.	I would recomme nd Marshall Universit y to a friend who wished to major in Chemistr y.
Min Value	2	1	1	2	2	2	1	1	1	1
Max Value	4	3	4	2	2	2	4	2	4	4
Mean	3.00	2.00	2.33	2.00	2.00	2.00	2.00	1.33	2.33	2.00
Variance	1.00	1.00	2.33	0.00	0.00	0.00	3.00	0.33	2.33	3.00
Standard Deviatio n	1.00	1.00	1.53	0.00	0.00	0.00	1.73	0.58	1.53	1.73
Total Respons es	3	3	3	3	3	3	3	3	3	3

#### 29. Gender

Value	Total
M	27
F	48

#### 30. Race

Value	Total
Caucasian (White)	58
American Indian/Alaskan Native	1
African-American (Black)	2
Hispanic	1
No Information	13

#### 31. Age

Value	Total
23 25	14
25	2
22	23
21	17
24 28	6
28	1
30	1
27	2
38	1
38 29 32 33	1
32	1
33	1
39	1
35	2
39 35 36	1
47	1

#### 32. Degree

Value	Total
BS	57
BA BSC	16
BSC	2

#### 33. Major

Value	Total
SB70	3
SC60	3
SB40	1
SB10	16
SJ10	12
SI20	5
SE10	4
SC10	3
SM10	2
SI30	2
SN10	4
SC50	2
SI40	3
SJ20	4
SBA0	4
SC20	2
SM30	4
SB80	1

#### 34. Minor\_1

Value	Total
VCHM	23
VBSC	7
VFRN	1
VHST	4
VART	1
VGLY	2
VSPN	1
VCJ0	3
VSOC	1
VGER	1
VMTH	3
VATE	1
VMKT	1
VPHY	1
VPSY	5
VECN	2
[No Value]	18

#### 35. Minor\_2

Value	Total
VCHM	3
VIS1	1
VART	1
VIST	1
VPHY	2
VENG	1
VBSC	1
VCSC	1
VMGT	1
[No Value]	63

#### 36. GPA

Value	Total
3.61	1
3.43	2
3.35	
2.98	1
3.14	2
2.67	1
2.75	3
2.05	1
2.58	1
3.77	1
2.38	1
2.64	2
3.13	1
3.2	2
3.68	1
4	
2.34	2
3.44	1
3.09	1
2.59	1
3.78	2
2.53	1
2.88	1
2.3	1
3.67	1
3.86	1
3.56	1
3.7	1
3.31	1
2.93	1
2.55	2
3.21	1
3.85	2
3.69	2
0.00	4

3.81	1
3.22	1
3.76	1
3.72	1
3.47	2
3.6	2
2.8	2
3.1	1
3.32	1
3.4	1
3.37	1
2.97	1
3.03	1
3.65	1
3.84	1
3.48	1
3.5	1
3.59	1
2.87	1
3.29	1
3.66	1
3.55	1
3.26	1
3.3	1
2.52	1
3.08	1
3.45	1