

ACT Prediction Report

CODE: 0142

SOUTHERN ARKANSAS UNIVERSITY

MAGNOLIA, AR

2010-2011 FRESHMEN - SUBGROUP 2 (FEMALES)

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142

SUBGROUP 2 (FEMALES)

120329

PREDICTION REPORT 2010-2011 FRESHMEN

ACT Research Services

PREDICTION RESEARCH SERVICE REPORT

Table of Contents

This report is for your students who were freshmen during the 2010-2011 academic year. Assistance in understanding this report and applying the results on your campus is provided in the publication: "Your College Freshmen: Interpretive Guide to ACT Research Services for Higher Education".

Part I. Highlights (H) Tables

Table H-1	Relative Efficiency of Different ACT Indices in Predicting College Grades	1.00
Table H-2	College Grades and Academic Abilities	2.00
Table H-3	Comparison of TH Index and Local Predictors	3.00
Table H-4	Distribution of College Grades by Different Measures of H.S. Preparation	4.00
Table H-5	2nd Year Persisters and Non-Persisters	5.00

Part II. Local Interpretation (LI) Tables

Table LI-1.1	ACT Norms for this Group	6.00
Table LI-1.2	Distribution of High School Grades in This Group	6.01
Table LI-1.3	Frequency Distributions of College Grade Point Averages in This Group	6.02
Table LI-1.4	Distribution of Predicted GPA (Based on T Index)	6.03
Table LI-1.5	Distribution of Predicted GPA (Based on TH Index)	6.04
Table LI-2.1	Computational Table for Predicting English GPA	6.05
Table LI-2.2	Computational Table for Predicting Mathematics GPA	6.06
Table LI-2.3	Computational Table for Predicting Social Science GPA	6.07
Table LI-2.4	Computational Table for Predicting Natural Science GPA	6.08
Table LI-2.5	Computational Table for Predicting Overall GPA	6.09
Table LI-3.1	GPA Expectancies in College English	6.10
Table LI-3.2	GPA Expectancies in College Mathematics	6.11
Table LI-3.3	GPA Expectancies in College Social Science	6.12
Table LI-3.4	GPA Expectancies in College Natural Science	6.13
Table LI-3.5	GPA Expectancies in College Overall	6.14

Part III. Technical (T) Tables

Table T-1.1	Means and Standard Deviations of ACT Scores, H.S. Grades, and College Grades	7.00
Table T-1.2	Intercorrelations of ACT Scores and High School Grades	7.01
Table T-1.3	Correlations of ACT Scores with College Grades	7.02
Table T-1.4	Correlations of High School Grades with College Grades	7.03

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE H-1 RELATIVE EFFICIENCY OF DIFFERENT ACT INDICES IN PREDICTING COLLEGE GRADES

COLLEGE GPA	AREA	NCNT	T INDEX R SE-EST		H INDEX R SE-EST		TH INDEX R SE-EST	
ENGLISH	E	87	0.294	1.222	0.400	1.172	0.426	1.123
MATHEMATICS	M	72	0.363	1.150	0.375	1.144	0.449	1.063
SOCIAL SCIENCE	S	65	0.483	1.070	0.485	1.069	0.564	0.969
OVERALL	O	244	0.294	0.901	0.403	0.863	0.398	0.856

NATIONAL MEDIANS FOR ACT INDICES OBTAINED FROM THE 1997-98 PREDICTION RESEARCH SERVICES *

COLLEGE GPA	T INDEX R SE-EST		H INDEX R SE-EST		TH INDEX R SE-EST	
ENGLISH	0.356	0.961	0.398	0.945	0.452	0.907
MATHEMATICS	0.393	1.147	0.434	1.133	0.507	1.056
SOCIAL SCIENCE	0.452	0.980	0.456	0.988	0.532	0.911
NATURAL SCIENCE	0.478	0.970	0.473	0.961	0.560	0.889
OVERALL	0.423	0.808	0.484	0.781	0.530	0.747

* THESE DATA ARE TAKEN FROM SUMMARY TABLES S-4.1 THROUGH S-4.6

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE H-2 COLLEGE GRADES AND ACADEMIC ABILITIES

STUDENTS ENROLLED IN	SIZE OF SAMPLE	MEANS			PCT AT OR BELOW MEAN**			STANDARD DEVIATIONS		
		ACT COMP	AVERAGE OF 4 HS GRADES	COLLEGE GPA*	ACT COMP	AVERAGE OF 4 HS GRADES	COLLEGE GPA*	ACT COMP	AVERAGE OF 4 HS GRADES	COLLEGE GPA*
ENGLISH	87	20.3	3.31	2.36	39	74	12	3.02	0.50	1.25
MATH	72	22.1	3.52	2.51	69	94	64	3.23	0.37	1.20
SOC SCI	65	21.5	3.46	2.40	58	89	42	3.24	0.48	1.18
OVERALL	244	20.7	3.35	2.94	47	81	90	3.82	0.53	0.94

* REFERS TO ENGLISH GPA IN ENGLISH AREA, MATH GPA IN MATH AREA, ETC.

** REFERS TO THE RANKING OF THIS MEAN COMPARED WITH THE MEANS OF ALL SCHOOLS IN
1997-98 PREDICTION RESEARCH SERVICE

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE H-3 COMPARISON OF COLLEGE GPA'S, LOCAL PREDICTORS, ACT SCORES, AND HS GRADES

PREDICTOR VARIABLES	COLLEGE ENGLISH GPA	COLLEGE MATH GPA	COLLEGE SOC SCI GPA	COLLEGE NAT SCI GPA	COLLEGE OVERALL GPA
LP 1 -	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 2 -	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 3 -	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 4 -	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 5 -	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 1 & ACT (T)	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 2 & ACT (T)	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 3 & ACT (T)	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 4 & ACT (T)	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 5 & ACT (T)	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 1 & ACT & HS (TH)	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 2 & ACT & HS (TH)	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 3 & ACT & HS (TH)	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 4 & ACT & HS (TH)	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0
LP 5 & ACT & HS (TH)	-.----	-.----	-.----	-.----	-.----
N-CT	0	0	0	0	0

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, ARCOLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE H-4 DISTRIBUTION OF COLLEGE GRADES BY DIFFERENT MEASURES OF HS ACADEMIC PREPARATION

STUDENTS WITH CORE PREPARATION*								
STUDENTS ENROLLED IN	NCNT	(% IN COLLEGE GPA INTERVAL)					COLLEGE GPA**	AVG ACT COMP
		3.5-4.0	2.5-3.4	1.5-2.4	0.5-1.4	0.0-0.4		
ENGLISH	78	13	46	22	9	10	2.42	20.3
MATHEMATICS	65	23	35	25	8	9	2.55	22.2
SOCIAL SCIENCE	54	22	31	33	6	7	2.56	22.0
NATURAL SCIENCE	27	33	41	15	4	7	2.89	22.9
OVERALL	214	33	48	11	4	4	2.99	21.0
STUDENTS WITHOUT CORE PREPARATION*								
STUDENTS ENROLLED IN	NCNT	(% IN COLLEGE GPA INTERVAL)					COLLEGE GPA**	AVG ACT COMP
		3.5-4.0	2.5-3.4	1.5-2.4	0.5-1.4	0.0-0.4		
ENGLISH	9	33	11	0	11	44	1.78	20.3
MATHEMATICS	7	14	14	57	0	14	2.14	21.6
SOCIAL SCIENCE	11	0	27	36	9	27	1.64	19.0
NATURAL SCIENCE	1	0	0	0	100	0	1.00	18.0
OVERALL	30	23	43	20	3	10	2.58	18.6

* CORE IS DEFINED AS 4 YEARS OF ENGLISH, 3 YEARS OF MATHEMATICS, 3 YEARS OF SOCIAL STUDIES,
AND 3 YEARS OF NATURAL SCIENCE

** REFERS TO ENGLISH GPA IN ENGLISH AREA, MATH GPA IN MATH AREA, ETC.

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, ARCOLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE H-5 2ND YEAR PERSISTERS AND NON-PERSISTERS

SUBGROUP	RETURNING 2ND YEAR STUDENTS						NON-RETURNING STUDENTS					
	<u>CORE</u>	<u>OR</u>	<u>MORE</u>	<u>LESS THAN</u>	<u>CORE</u>		<u>CORE</u>	<u>OR</u>	<u>MORE</u>	<u>LESS THAN</u>	<u>CORE</u>	
	N	AVG GPA	AVG ACT	N	AVG GPA	AVG ACT	N	AVG GPA	AVG ACT	N	AVG GPA	AVG ACT
TOTAL STUDENTS	160	3.22	21.3	18	3.02	19.4	0	0.00	0.0	0	0.00	0.0
MEN	3	3.17	24.3	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0
WOMEN	157	3.22	21.3	18	3.02	19.4	0	0.00	0.0	0	0.00	0.0
BLACK/AFRICAN AM	53	3.06	18.3	9	2.99	18.0	0	0.00	0.0	0	0.00	0.0
AM IND/ALASKA NT	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0
WHITE	98	3.33	23.1	9	3.06	20.9	0	0.00	0.0	0	0.00	0.0
HISPANIC/LATINO	5	2.72	18.6	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0
ASIAN	3	3.30	20.0	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0
N HWN/OTH PAC IS	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0
TWO OR MORE RACE	1	3.70	26.0	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0
PREF NOT TO RESP	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0
NO RESPONSE	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0
FIRST CHOICE	81	3.17	21.2	13	2.92	19.5	0	0.00	0.0	0	0.00	0.0
SECOND CHOICE	19	3.22	20.3	1	2.30	14.0	0	0.00	0.0	0	0.00	0.0
CHOICES 3-6	21	3.56	22.0	1	3.20	25.0	0	0.00	0.0	0	0.00	0.0
OTHER	39	3.15	21.7	3	3.67	19.3	0	0.00	0.0	0	0.00	0.0

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 1.1 ACT NORMS FOR THIS GROUP

SCORE	ENGLISH F CP	MATH F CP	READING F CP	SCIENCE F CP	COMP F CP	SCORE	ENGLISH F CP	MATH F CP	READING F CP	SCIENCE F CP	COMP F CP
36	0 99	0 99	0 99	0 99	0 99	18	5 27	26 41	10 35	21 30	22 32
35	0 99	0 99	1 99	0 99	0 99	17	10 25	27 30	23 31	11 21	17 23
34	1 99	0 99	0 99	0 99	0 99	16	20 21	25 19	18 21	18 16	21 16
33	1 99	0 99	0 99	0 99	0 99	15	10 13	16 9	12 14	6 9	10 7
32	5 99	1 99	3 99	0 99	0 99	14	4 9	5 2	12 9	4 7	8 3
31	2 97	0 99	7 98	2 99	1 99	13	5 7	1 1	5 4	5 5	0 1
30	7 96	0 99	7 95	0 99	1 99	12	5 5	0 1	1 2	3 3	0 1
29	4 93	2 99	12 93	2 99	5 99	11	5 3	0 1	3 2	2 2	0 1
28	4 92	3 99	4 88	2 98	4 97	10	3 1	0 1	0 1	1 1	0 1
27	5 90	5 98	6 86	8 98	13 95	9	0 1	0 1	0 1	1 1	0 1
26	10 88	10 95	8 84	7 94	8 90	8	0 1	0 1	1 1	0 1	0 1
25	9 84	14 91	11 80	10 91	11 87	7	0 1	0 1	0 1	0 1	0 1
24	21 80	23 86	9 76	19 87	11 82	6	0 1	0 1	0 1	0 1	0 1
23	13 72	12 76	18 72	22 80	19 78	5	0 1	0 1	0 1	0 1	0 1
22	25 66	21 71	17 65	17 70	19 70	4	0 1	0 1	0 1	0 1	0 1
21	24 56	17 63	17 58	29 64	30 62	3	0 1	0 1	0 1	0 1	0 1
20	26 46	18 56	14 51	30 52	30 50	2	0 1	0 1	0 1	0 1	0 1
19	20 36	18 48	25 45	24 39	14 38	1	0 1	0 1	0 1	0 1	0 1

PERCENTAGES OF SCORES IN VARIOUS INTERVALS

	ENGLISH	MATH	READING	SCIENCE	COMP
27-36	12	5	16	6	10
22-26	32	33	26	31	28
19-21	29	22	23	34	30
1-18	27	41	35	30	32

MEANS AND STANDARD DEVIATIONS OF ACT SCORES

	ENGLISH	MATH	READING	SCIENCE	COMP
MEAN	20.90	20.16	20.92	20.35	20.70
S.D.	4.94	3.75	5.16	3.85	3.82
NUMBER OF STUDENTS =			244		

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, ARCOLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 1.2 DISTRIBUTION OF HIGH SCHOOL GRADES IN THIS GROUP

	ENGLISH			MATHEMATICS			SOC STUDIES			NAT SCIENCE			AVERAGE, 4 H.S. GRADES			
	FREQ	PC	CP	FREQ	PC	CP	FREQ	PC	CP	FREQ	PC	CP	INTERVAL	FREQ	PC	CP
A	137	56	99	98	40	99	158	65	99	124	51	99	(3.5-4.0)	128	52	99
B	95	39	44	102	42	60	73	30	35	88	36	49	(2.5-3.4)	99	41	48
C	11	5	5	38	16	18	11	5	5	32	13	13	(1.5-2.4)	17	7	7
D	1	0	1	6	2	2	2	1	1	0	0	1	(0.5-1.4)	0	0	1
F	0	0	1	0	0	1	0	0	1	0	0	1	(0.0-0.4)	0	0	1

MEANS AND STANDARD DEVIATIONS OF HIGH SCHOOL GRADES

	ENGLISH	MATHEMATICS	SOC STUDIES	NAT SCIENCE	AVERAGE, 4 H.S. GRADES
MEAN	3.42	3.13	3.53	3.30	3.35
S.D.	0.57	0.75	0.57	0.65	0.53

NUMBER OF STUDENTS IN THIS GROUP 244

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, ARCOLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 1.3 FREQUENCY DISTRIBUTIONS OF COLLEGE GRADE POINT AVERAGES IN THIS GROUP

SCORE	ENGLISH F CP	MATH F CP	SOC F CP	SCI F CP	NAT F CP	SCI F CP	OVERALL F CP	SCORE	ENGLISH F CP	MATH F CP	SOC F CP	SCI F CP	NAT F CP	SCI F CP	OVERALL F CP
4.0	13 99	16 99	12 99	- --			22 99	1.9	0 23	0 17	0 17	- --			1 11
3.9	0 85	0 78	0 82	- --			2 91	1.8	0 23	0 17	0 17	- --			1 11
3.8	0 85	0 78	0 82	- --			12 90	1.7	0 23	0 17	0 17	- --			4 10
3.7	0 85	0 78	0 82	- --			13 85	1.6	0 23	0 17	0 17	- --			0 9
3.6	0 85	0 78	0 82	- --			17 80	1.5	0 23	0 17	0 17	- --			0 9
3.5	0 85	0 78	0 82	- --			11 73	1.4	0 23	0 17	0 17	- --			2 9
3.4	0 85	0 78	0 82	- --			20 68	1.3	0 23	0 17	0 17	- --			1 8
3.3	0 85	0 78	0 82	- --			10 60	1.2	0 23	0 17	0 17	- --			2 7
3.2	0 85	0 78	0 82	- --			21 56	1.1	0 23	0 17	0 17	- --			1 7
3.1	0 85	0 78	0 82	- --			10 48	1.0	8 23	5 17	4 17	- --			2 6
3.0	37 85	24 78	20 82	- --			12 43	0.9	0 14	0 10	0 11	- --			0 5
2.9	0 43	0 44	0 51	- --			5 39	0.8	0 14	0 10	0 11	- --			1 5
2.8	0 43	0 44	0 51	- --			17 36	0.7	0 14	0 10	0 11	- --			0 5
2.7	0 43	0 44	0 51	- --			6 30	0.6	0 14	0 10	0 11	- --			0 5
2.6	0 43	0 44	0 51	- --			9 27	0.5	0 14	0 10	0 11	- --			0 5
2.5	0 43	0 44	0 51	- --			6 23	0.4	0 14	0 10	0 11	- --			1 5
2.4	0 43	0 44	0 51	- --			7 21	0.3	0 14	0 10	0 11	- --			1 5
2.3	0 43	0 44	0 51	- --			5 18	0.2	0 14	0 10	0 11	- --			1 4
2.2	0 43	0 44	0 51	- --			6 16	0.1	0 14	0 10	0 11	- --			0 4
2.1	0 43	0 44	0 51	- --			2 14	0.0	12 14	7 10	7 11	- --			9 4
2.0	17 43	20 44	22 51	- --			4 13								

PERCENT OF STUDENTS IN VARIOUS GPA INTERVALS MEANS AND STANDARD DEVIATIONS OF COLLEGE GPAS

	ENGLISH	MATH	SOC	SCI	NAT	SCI	OVERALL		ENGLISH	MATH	SOC	SCI	NAT	SCI	OVERALL
3.5-4.0	15	22		18	--		32	MEAN	2.36	2.51	2.40	- . -			2.94
2.5-3.4	43	33		31	--		48								
1.5-2.4	20	28		34	--		12	S.D.	1.25	1.20	1.18	- . -			0.94
0.5-1.4	9	7		6	--		4								
0.0-0.4	14	10		11	--		5	N-NCT	87	72	65		28		244

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, ARCOLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 1.4 DISTRIBUTIONS OF PREDICTED G.P.A. (BASED ON T INDEX)

SCORE	ENGLISH F CP	MATH F CP	SOC F CP	SCI F CP	NAT F CP	SCI F CP	OVERALL F CP	SCORE	ENGLISH F CP	MATH F CP	SOC F CP	SCI F CP	NAT F CP	SCI F CP	OVERALL F CP
ABOVE	0 99	3 99	3 99	- --		10 99	1.9	6 13	2 10	2 17	- --		0 1		
3.4	0 99	0 96	3 95	- --		9 96	1.8	4 6	4 7	3 14	- --		0 1		
3.3	0 99	0 96	1 91	- --		21 92	1.7	0 1	1 1	0 9	- --		0 1		
3.2	2 99	3 96	0 89	- --		22 84	1.6	0 1	0 1	2 9	- --		0 1		
3.1	2 98	3 92	2 89	- --		23 75	1.5	0 1	0 1	2 6	- --		0 1		
3.0	1 95	1 88	4 86	- --		24 65	1.4	1 1	0 1	0 3	- --		0 1		
2.9	3 94	4 86	0 80	- --		29 55	1.3	0 1	0 1	0 3	- --		0 1		
2.8	4 91	3 81	0 80	- --		35 43	1.2	0 1	0 1	1 3	- --		0 1		
2.7	9 86	8 76	4 80	- --		32 29	1.1	0 1	0 1	0 2	- --		0 1		
2.6	6 76	8 65	6 74	- --		26 16	1.0	0 1	0 1	0 2	- --		0 1		
2.5	8 69	7 54	2 65	- --		11 5	0.9	0 1	0 1	1 2	- --		0 1		
2.4	5 60	6 44	9 62	- --		2 1	0.8	0 1	0 1	0 1	- --		0 1		
2.3	11 54	7 36	2 48	- --		0 1	0.7	0 1	0 1	0 1	- --		0 1		
2.2	9 41	5 26	11 45	- --		0 1	0.6	0 1	0 1	0 1	- --		0 1		
2.1	9 31	4 19	3 28	- --		0 1	0.5	0 1	0 1	0 1	- --		0 1		
2.0	7 21	3 14	4 23	- --		0 1	BELOW	0 1	0 1	0 1	- --		0 1		
NUMBER OF STUDENTS IN EACH DISTRIBUTION								87	72	65	28	244			

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, ARCOLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 1.5 DISTRIBUTIONS OF PREDICTED G.P.A. (BASED ON TH INDEX)

SCORE	ENGLISH F CP	MATH F CP	SOC F CP	SCI F CP	NAT F CP	SCI F CP	OVERALL F CP	SCORE	ENGLISH F CP	MATH F CP	SOC F CP	SCI F CP	NAT F CP	SCI F CP	OVERALL F CP
ABOVE	0 99	0 99	0 99	- --			5 99	1.9	7 15	0 7	0 15	- --			0 1
3.4	0 99	2 99	0 99	- --			5 98	1.8	2 7	1 7	2 15	- --			0 1
3.3	0 99	0 97	1 99	- --			25 96	1.7	2 5	4 6	4 12	- --			0 1
3.2	0 99	0 97	2 98	- --			34 86	1.6	1 2	0 1	1 6	- --			0 1
3.1	3 99	0 97	3 95	- --			31 72	1.5	0 1	0 1	1 5	- --			0 1
3.0	1 97	5 97	4 91	- --			28 59	1.4	0 1	0 1	0 3	- --			0 1
2.9	2 95	2 90	2 85	- --			25 48	1.3	1 1	0 1	0 3	- --			0 1
2.8	6 93	13 88	1 82	- --			24 37	1.2	0 1	0 1	0 3	- --			0 1
2.7	6 86	6 69	6 80	- --			22 27	1.1	0 1	0 1	1 3	- --			0 1
2.6	13 79	8 61	6 71	- --			16 18	1.0	0 1	0 1	1 2	- --			0 1
2.5	8 64	8 50	8 62	- --			13 12	0.9	0 1	0 1	0 1	- --			0 1
2.4	7 55	5 39	6 49	- --			10 7	0.8	0 1	0 1	0 1	- --			0 1
2.3	5 47	4 32	3 40	- --			5 2	0.7	0 1	0 1	0 1	- --			0 1
2.2	8 41	9 26	4 35	- --			0 1	0.6	0 1	0 1	0 1	- --			0 1
2.1	9 32	3 14	4 29	- --			1 1	0.5	0 1	0 1	0 1	- --			0 1
2.0	6 22	2 10	5 23	- --			0 1	BELOW	0 1	0 1	0 1	- --			0 1
NUMBER OF STUDENTS IN EACH DISTRIBUTION									87	72	65	28			244

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MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 2.1 COMPUTATIONAL TABLE FOR PREDICTING ENGLISH

STEP 1. TO PREDICT G.P.A. FROM ACT SCORES,
ADD THE APPROPRIATE DIGITS FROM FIGURE 1
TO THE ACT CONSTANT (7), THEN MARK OFF
ONE DECIMAL POSITION.

STEP 2. TO PREDICT G.P.A. FROM HIGH SCHOOL GRADES
ADD THE APPROPRIATE DIGITS FROM FIGURE 2
TO THE HIGH SCHOOL CONSTANT (-8), THEN
MARK OFF ONE DECIMAL POSITION.

STEP 3. TO OBTAIN THE OPTIMUM ACT INDEX, AVERAGE
THE TWO PREDICTIONS.

FIGURE 2					
H.S. GRADES	ENG	MATH	SOC S	NAT S	
A=4	13	13	3	9	
B=3	10	10	2	7	
C=2	6	6	2	5	
D=1	3	3	1	2	

REGRESSION COEFFICIENTS					
	B0	B1	B2	B3	B4
ACT SCORES	0.723	0.041	0.095	-0.075	0.022
H.S. GRADES	-0.752	0.323	0.320	0.077	0.233

FIGURE 1				
ACT SCORE	(SCORE) ENG	(REGR. COEF.) MATH	RDNG	SCI
36	15	34	-27	8
35	15	33	-26	8
34	14	32	-26	7
33	14	31	-25	7
32	13	30	-24	7
31	13	29	-23	7
30	12	28	-23	6
29	12	27	-22	6
28	12	27	-21	6
27	11	26	-20	6
26	11	25	-20	6
25	10	24	-19	5
24	10	23	-18	5
23	10	22	-17	5
22	9	21	-17	5
21	9	20	-16	5
20	8	19	-15	4
19	8	18	-14	4
18	7	17	-14	4
17	7	16	-13	4
16	7	15	-12	3
15	6	14	-11	3
14	6	13	-11	3
13	5	12	-10	3
12	5	11	-9	3
11	5	10	-8	2
10	4	9	-8	2
9	4	9	-7	2
8	3	8	-6	2
7	3	7	-5	2
6	2	6	-5	1
5	2	5	-4	1

SOUTHERN ARKANSAS UNIVERSITY
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COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 2.2 COMPUTATIONAL TABLE FOR PREDICTING MATHEMATICS

STEP 1. TO PREDICT G.P.A. FROM ACT SCORES,
ADD THE APPROPRIATE DIGITS FROM FIGURE 1
TO THE ACT CONSTANT (-6), THEN MARK OFF
ONE DECIMAL POSITION.

STEP 2. TO PREDICT G.P.A. FROM HIGH SCHOOL GRADES
ADD THE APPROPRIATE DIGITS FROM FIGURE 2
TO THE HIGH SCHOOL CONSTANT (-12), THEN
MARK OFF ONE DECIMAL POSITION.

STEP 3. TO OBTAIN THE OPTIMUM ACT INDEX, AVERAGE
THE TWO PREDICTIONS.

* * * * * FIGURE 2 * * * * *					
* (GRADE) x (REGR. COEF.) *					
* H.S. GRADES	ENG	MATH	SOC S	NAT S	*
* A=4	26	21	-5	1	*
* B=3	19	16	-3	1	*
* C=2	13	10	-2	0	*
* D=1	6	5	-1	0	*
* * * * *					

REGRESSION COEFFICIENTS

	B0	B1	B2	B3	B4
ACT SCORES	-0.644	0.049	0.088	-0.049	0.057
H.S. GRADES	-1.204	0.642	0.523	-0.115	0.024

----- FIGURE 1 -----				
ACT SCORE	(SCORE) ENG	x (REGR. COEF.) MATH	RDNG	SCI
36	18	32	-18	21
35	17	31	-17	20
34	17	30	-17	19
33	16	29	-16	19
32	16	28	-16	18
31	15	27	-15	18
30	15	26	-15	17
29	14	26	-14	17
28	14	25	-14	16
27	13	24	-13	15
26	13	23	-13	15
25	12	22	-12	14
24	12	21	-12	14
23	11	20	-11	13
22	11	19	-11	13
21	10	19	-10	12
20	10	18	-10	11
19	9	17	-9	11
18	9	16	-9	10
17	8	15	-8	10
16	8	14	-8	9
15	7	13	-7	9
14	7	12	-7	8
13	6	11	-6	7
12	6	11	-6	7
11	5	10	-5	6
10	5	9	-5	6
9	4	8	-4	5
8	4	7	-4	5
7	3	6	-3	4
6	3	5	-3	3
5	2	4	-2	3

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MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 2.3 COMPUTATIONAL TABLE FOR PREDICTING SOCIAL SCIENCE

STEP 1. TO PREDICT G.P.A. FROM ACT SCORES,
ADD THE APPROPRIATE DIGITS FROM FIGURE 1
TO THE ACT CONSTANT (-11), THEN MARK OFF
ONE DECIMAL POSITION.

STEP 2. TO PREDICT G.P.A. FROM HIGH SCHOOL GRADES
ADD THE APPROPRIATE DIGITS FROM FIGURE 2
TO THE HIGH SCHOOL CONSTANT (-20), THEN
MARK OFF ONE DECIMAL POSITION.

STEP 3. TO OBTAIN THE OPTIMUM ACT INDEX, AVERAGE
THE TWO PREDICTIONS.

* * * * * FIGURE 2 * * * * *					
* (GRADE) x (REGR. COEF.) *					
* H.S. GRADES	ENG	MATH	SOC S	NAT S	*
* A=4	30	-4	5	19	*
* B=3	23	-3	4	14	*
* C=2	15	-2	3	9	*
* D=1	8	-1	1	5	*
* * * * *					

REGRESSION COEFFICIENTS					
	B0	B1	B2	B3	B4
ACT SCORES	-1.054	0.136	-0.011	-0.019	0.053
H.S. GRADES	-1.994	0.754	-0.111	0.132	0.467

----- FIGURE 1 -----					
ACT SCORE	(SCORE)	ENG	MATH	RDNG	SCI
36	49	-4	-7	19	
35	48	-4	-7	18	
34	46	-4	-7	18	
33	45	-4	-6	17	
32	44	-3	-6	17	
31	42	-3	-6	16	
30	41	-3	-6	16	
29	40	-3	-6	15	
28	38	-3	-5	15	
27	37	-3	-5	14	
26	35	-3	-5	14	
25	34	-3	-5	13	
24	33	-3	-5	13	
23	31	-3	-4	12	
22	30	-2	-4	12	
21	29	-2	-4	11	
20	27	-2	-4	11	
19	26	-2	-4	10	
18	25	-2	-3	10	
17	23	-2	-3	9	
16	22	-2	-3	8	
15	20	-2	-3	8	
14	19	-2	-3	7	
13	18	-1	-2	7	
12	16	-1	-2	6	
11	15	-1	-2	6	
10	14	-1	-2	5	
9	12	-1	-2	5	
8	11	-1	-2	4	
7	10	-1	-1	4	
6	8	-1	-1	3	
5	7	-1	-1	3	

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 2.4 COMPUTATIONAL TABLE FOR PREDICTING NATURAL SCIENCE

NO DATA SUBMITTED FOR NATURAL SCIENCE

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 2.5 COMPUTATIONAL TABLE FOR PREDICTING OVERALL

STEP 1. TO PREDICT G.P.A. FROM ACT SCORES,
ADD THE APPROPRIATE DIGITS FROM FIGURE 1
TO THE ACT CONSTANT (14), THEN MARK OFF
ONE DECIMAL POSITION.

STEP 2. TO PREDICT G.P.A. FROM HIGH SCHOOL GRADES
ADD THE APPROPRIATE DIGITS FROM FIGURE 2
TO THE HIGH SCHOOL CONSTANT (7), THEN
MARK OFF ONE DECIMAL POSITION.

STEP 3. TO OBTAIN THE OPTIMUM ACT INDEX, AVERAGE
THE TWO PREDICTIONS.

* * * * * FIGURE 2 * * * * *					
* (GRADE) x (REGR. COEF.) *					
* H.S. GRADES	ENG	MATH	SOC S	NAT S	*
* A=4	12	9	1	5	*
* B=3	9	7	1	4	*
* C=2	6	5	1	3	*
* D=1	3	2	0	1	*
* * * * *					

REGRESSION COEFFICIENTS

	B0	B1	B2	B3	B4
ACT SCORES	1.359	0.001	0.061	-0.003	0.020
H.S. GRADES	0.683	0.294	0.225	0.026	0.137

----- FIGURE 1 -----
ACT (SCORE) x (REGR. COEF.)
SCORE ENG MATH RDNG SCI

36	0	22	-1	7
35	0	21	-1	7
34	0	21	-1	7
33	0	20	-1	7
32	0	19	-1	6
31	0	19	-1	6
30	0	18	-1	6
29	0	18	-1	6
28	0	17	-1	6
27	0	16	-1	5
26	0	16	-1	5
25	0	15	-1	5
24	0	15	-1	5
23	0	14	-1	5
22	0	13	-1	4
21	0	13	-1	4
20	0	12	-1	4
19	0	12	-1	4
18	0	11	-1	4
17	0	10	-1	3
16	0	10	-1	3
15	0	9	-1	3
14	0	8	-0	3
13	0	8	-0	3
12	0	7	-0	2
11	0	7	-0	2
10	0	6	-0	2
9	0	5	-0	2
8	0	5	-0	2
7	0	4	-0	1
6	0	4	-0	1
5	0	3	-0	1

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 3.1 G.P.A. EXPECTANCIES IN COLLEGE ENGLISH

BASED ON TH INDEX, PERCENT EXPECTED TO EARN-

BASED ON T INDEX, PERCENT EXPECTED TO EARN-

PREDICTED G.P.A.	LESS THAN 1.0 (D)	LESS THAN 2.0 (C)	2.0 (C) OR HIGHER	3.0 (B) OR HIGHER	PREDICTED G.P.A.	LESS THAN 1.0 (D)	LESS THAN 2.0 (C)	2.0 (C) OR HIGHER	3.0 (B) OR HIGHER	PREDICTED G.P.A.
3.6	1	8	92	70	3.6	2	10	90	69	3.6
3.5	1	9	91	67	3.5	2	11	89	66	3.5
3.4	2	11	89	64	3.4	2	13	87	63	3.4
3.3	2	12	88	61	3.3	3	14	86	60	3.3
3.2	2	14	86	57	3.2	4	16	84	56	3.2
3.1	3	16	84	54	3.1	4	18	82	53	3.1
3.0	4	19	81	50	3.0	5	21	79	50	3.0
2.9	5	21	79	46	2.9	6	23	77	47	2.9
2.8	5	24	76	43	2.8	7	26	74	44	2.8
2.7	7	27	73	39	2.7	8	28	72	40	2.7
2.6	8	30	70	36	2.6	10	31	69	37	2.6
2.5	9	33	67	33	2.5	11	34	66	34	2.5
2.4	11	36	64	30	2.4	13	37	63	31	2.4
2.3	12	39	61	27	2.3	14	40	60	28	2.3
2.2	14	43	57	24	2.2	16	44	56	26	2.2
2.1	16	46	54	21	2.1	18	47	53	23	2.1
2.0	19	50	50	19	2.0	21	50	50	21	2.0
1.9	21	54	46	16	1.9	23	53	47	18	1.9
1.8	24	57	43	14	1.8	26	56	44	16	1.8
1.7	27	61	39	12	1.7	28	60	40	14	1.7
1.6	30	64	36	11	1.6	31	63	37	13	1.6
1.5	33	67	33	9	1.5	34	66	34	11	1.5
1.4	36	70	30	8	1.4	37	69	31	10	1.4
1.3	39	73	27	7	1.3	40	72	28	8	1.3
1.2	43	76	24	5	1.2	44	74	26	7	1.2
1.1	46	79	21	5	1.1	47	77	23	6	1.1
1.0	50	81	19	4	1.0	50	79	21	5	1.0

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, ARCOLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 3.2 G.P.A. EXPECTANCIES IN COLLEGE MATHEMATICS

BASED ON TH INDEX, PERCENT EXPECTED TO EARN-

BASED ON T INDEX, PERCENT EXPECTED TO EARN-

PREDICTED G.P.A.	LESS THAN 1.0 (D)	LESS THAN 2.0 (C)	2.0 (C) OR HIGHER	3.0 (B) OR HIGHER	PREDICTED G.P.A.	LESS THAN 1.0 (D)	LESS THAN 2.0 (C)	2.0 (C) OR HIGHER	3.0 (B) OR HIGHER	PREDICTED G.P.A.
3.6	1	7	93	71	3.6	1	8	92	70	3.6
3.5	1	8	92	68	3.5	2	10	90	67	3.5
3.4	1	9	91	65	3.4	2	11	89	64	3.4
3.3	2	11	89	61	3.3	2	13	87	60	3.3
3.2	2	13	87	58	3.2	3	15	85	57	3.2
3.1	2	15	85	54	3.1	3	17	83	54	3.1
3.0	3	17	83	50	3.0	4	19	81	50	3.0
2.9	4	20	80	46	2.9	5	22	78	46	2.9
2.8	5	23	77	42	2.8	6	24	76	43	2.8
2.7	5	25	75	39	2.7	7	27	73	40	2.7
2.6	7	29	71	35	2.6	8	30	70	36	2.6
2.5	8	32	68	32	2.5	10	33	67	33	2.5
2.4	9	35	65	29	2.4	11	36	64	30	2.4
2.3	11	39	61	25	2.3	13	40	60	27	2.3
2.2	13	42	58	23	2.2	15	43	57	24	2.2
2.1	15	46	54	20	2.1	17	46	54	22	2.1
2.0	17	50	50	17	2.0	19	50	50	19	2.0
1.9	20	54	46	15	1.9	22	54	46	17	1.9
1.8	23	58	42	13	1.8	24	57	43	15	1.8
1.7	25	61	39	11	1.7	27	60	40	13	1.7
1.6	29	65	35	9	1.6	30	64	36	11	1.6
1.5	32	68	32	8	1.5	33	67	33	10	1.5
1.4	35	71	29	7	1.4	36	70	30	8	1.4
1.3	39	75	25	5	1.3	40	73	27	7	1.3
1.2	42	77	23	5	1.2	43	76	24	6	1.2
1.1	46	80	20	4	1.1	46	78	22	5	1.1
1.0	50	83	17	3	1.0	50	81	19	4	1.0

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, ARCOLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 3.3 G.P.A. EXPECTANCIES IN COLLEGE SOCIAL SCIENCE

BASED ON TH INDEX, PERCENT EXPECTED TO EARN-

BASED ON T INDEX, PERCENT EXPECTED TO EARN-

PREDICTED G.P.A.	LESS THAN 1.0 (D)	LESS THAN 2.0 (C)	2.0 (C) OR HIGHER	3.0 (B) OR HIGHER	PREDICTED G.P.A.	LESS THAN 1.0 (D)	LESS THAN 2.0 (C)	2.0 (C) OR HIGHER	3.0 (B) OR HIGHER	PREDICTED G.P.A.
3.6	1	5	95	73	3.6	1	7	93	71	3.6
3.5	1	6	94	70	3.5	1	8	92	68	3.5
3.4	1	7	93	66	3.4	1	10	90	64	3.4
3.3	1	9	91	62	3.3	2	11	89	61	3.3
3.2	1	11	89	58	3.2	2	13	87	58	3.2
3.1	2	13	87	54	3.1	2	15	85	54	3.1
3.0	2	15	85	50	3.0	3	18	82	50	3.0
2.9	2	18	82	46	2.9	4	20	80	46	2.9
2.8	3	20	80	42	2.8	5	23	77	42	2.8
2.7	4	24	76	38	2.7	6	26	74	39	2.7
2.6	5	27	73	34	2.6	7	29	71	36	2.6
2.5	6	30	70	30	2.5	8	32	68	32	2.5
2.4	7	34	66	27	2.4	10	36	64	29	2.4
2.3	9	38	62	24	2.3	11	39	61	26	2.3
2.2	11	42	58	20	2.2	13	42	58	23	2.2
2.1	13	46	54	18	2.1	15	46	54	20	2.1
2.0	15	50	50	15	2.0	18	50	50	18	2.0
1.9	18	54	46	13	1.9	20	54	46	15	1.9
1.8	20	58	42	11	1.8	23	58	42	13	1.8
1.7	24	62	38	9	1.7	26	61	39	11	1.7
1.6	27	66	34	7	1.6	29	64	36	10	1.6
1.5	30	70	30	6	1.5	32	68	32	8	1.5
1.4	34	73	27	5	1.4	36	71	29	7	1.4
1.3	38	76	24	4	1.3	39	74	26	6	1.3
1.2	42	80	20	3	1.2	42	77	23	5	1.2
1.1	46	82	18	2	1.1	46	80	20	4	1.1
1.0	50	85	15	2	1.0	50	82	18	3	1.0

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 3.4 G.P.A. EXPECTANCIES IN COLLEGE NATURAL SCIENCE

BASED ON TH INDEX, PERCENT EXPECTED TO EARN-					BASED ON T INDEX, PERCENT EXPECTED TO EARN-				
PREDICTED G.P.A.	LESS THAN 1.0 (D)	LESS THAN 2.0 (C)	2.0 (C) OR HIGHER	3.0 (B) OR HIGHER	PREDICTED G.P.A.	LESS THAN 1.0 (D)	LESS THAN 2.0 (C)	2.0 (C) OR HIGHER	3.0 (B) OR HIGHER

NO DATA SUBMITTED FOR NATURAL SCIENCE

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, ARCOLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE LI - 3.5 G.P.A. EXPECTANCIES IN COLLEGE OVERALL

BASED ON TH INDEX, PERCENT EXPECTED TO EARN-

BASED ON T INDEX, PERCENT EXPECTED TO EARN-

PREDICTED G.P.A.	LESS THAN 1.0 (D)	LESS THAN 2.0 (C)	2.0 (C) OR HIGHER	3.0 (B) OR HIGHER	PREDICTED G.P.A.	LESS THAN 1.0 (D)	LESS THAN 2.0 (C)	2.0 (C) OR HIGHER	3.0 (B) OR HIGHER	PREDICTED G.P.A.
3.6	1	3	97	76	3.6	1	4	96	75	3.6
3.5	1	4	96	72	3.5	1	5	95	71	3.5
3.4	1	5	95	68	3.4	1	6	94	67	3.4
3.3	1	6	94	64	3.3	1	7	93	63	3.3
3.2	1	8	92	59	3.2	1	9	91	59	3.2
3.1	1	10	90	55	3.1	1	11	89	54	3.1
3.0	1	12	88	50	3.0	1	13	87	50	3.0
2.9	1	15	85	45	2.9	2	16	84	46	2.9
2.8	2	18	82	41	2.8	2	19	81	41	2.8
2.7	2	21	79	36	2.7	3	22	78	37	2.7
2.6	3	24	76	32	2.6	4	25	75	33	2.6
2.5	4	28	72	28	2.5	5	29	71	29	2.5
2.4	5	32	68	24	2.4	6	33	67	25	2.4
2.3	6	36	64	21	2.3	7	37	63	22	2.3
2.2	8	41	59	18	2.2	9	41	59	19	2.2
2.1	10	45	55	15	2.1	11	46	54	16	2.1
2.0	12	50	50	12	2.0	13	50	50	13	2.0
1.9	15	55	45	10	1.9	16	54	46	11	1.9
1.8	18	59	41	8	1.8	19	59	41	9	1.8
1.7	21	64	36	6	1.7	22	63	37	7	1.7
1.6	24	68	32	5	1.6	25	67	33	6	1.6
1.5	28	72	28	4	1.5	29	71	29	5	1.5
1.4	32	76	24	3	1.4	33	75	25	4	1.4
1.3	36	79	21	2	1.3	37	78	22	3	1.3
1.2	41	82	18	2	1.2	41	81	19	2	1.2
1.1	45	85	15	1	1.1	46	84	16	2	1.1
1.0	50	88	12	1	1.0	50	87	13	1	1.0

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE T - 1.1 MEANS AND STANDARD DEVIATIONS OF ACT SCORES, H.S. GRADES, AND COLLEGE GRADES

MEANS FOR STUDENTS ENROLLED IN -					
	COLLEGE ENGLISH	COLLEGE MATH	COLLEGE SOC SCI	COLLEGE NAT SCI	COLLEGE OVERALL
ACT ENGLISH TEST	20.9	22.5	22.0	---	20.9
ACT MATHEMATICS TEST	19.6	21.8	20.9	---	20.2
ACT READING TEST	20.1	22.3	22.1	---	20.9
ACT SCIENCE TEST	19.9	21.4	20.8	---	20.4
H.S. ENGLISH GRADE	3.4	3.6	3.5	---	3.4
H.S. MATHEMATICS GRADE	3.1	3.4	3.2	---	3.1
H.S. SOCIAL STUDIES GRADE	3.5	3.6	3.7	---	3.5
H.S. NATURAL SCIENCE GRADE	3.3	3.5	3.4	---	3.3
ACT COMPOSITE	20.3	22.1	21.5	---	20.7
AVERAGE, 4 H.S. GRADES	3.3	3.5	3.5	---	3.3
COLLEGE G.P.A.*	2.4	2.5	2.4	---	2.9
STANDARD DEVIATIONS FOR STUDENTS ENROLLED IN ABOVE COURSES					
ACT ENGLISH TEST	3.40	4.25	3.96	---	4.94
ACT MATHEMATICS TEST	3.27	3.15	3.53	---	3.75
ACT READING TEST	4.36	5.19	4.68	---	5.16
ACT SCIENCE TEST	3.58	3.33	3.33	---	3.85
H.S. ENGLISH GRADE	0.56	0.46	0.52	---	0.57
H.S. MATHEMATICS GRADE	0.78	0.53	0.74	---	0.75
H.S. SOCIAL STUDIES GRADE	0.60	0.54	0.45	---	0.57
H.S. NATURAL SCIENCE GRADE	0.60	0.50	0.58	---	0.65
ACT COMPOSITE	3.02	3.23	3.24	---	3.82
AVERAGE, 4 H.S. GRADES	0.50	0.37	0.48	---	0.53
COLLEGE G.P.A.*	1.25	1.20	1.18	---	0.94
NUMBER OF STUDENTS	87	72	65	28	244

* REFERS TO ENGLISH GPA IN ENGLISH AREA, MATH GPA IN MATH AREA, ETC.

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE T - 1.2 INTERCORRELATIONS OF ACT SCORES AND H.S. GRADES

	ACT M	ACT R	ACT S	ACT C	HS E	HS M	HS S	HS N	HS AV
ACT ENGLISH	0.653	0.758	0.629	0.894	0.466	0.450	0.387	0.519	0.544
ACT MATHEMATICS		0.587	0.643	0.816	0.488	0.531	0.451	0.522	0.596
ACT READING			0.647	0.886	0.451	0.304	0.392	0.427	0.462
ACT SCIENCE				0.831	0.366	0.450	0.291	0.448	0.470
(ACT COMPOSITE)					0.509	0.493	0.441	0.557	0.596
H.S. ENGLISH						0.592	0.674	0.589	0.834
H.S. MATHEMATICS							0.536	0.667	0.854
H.S. SOCIAL STUDIES								0.593	0.816
H.S. NATURAL SCIENCE									0.854
(AVERAGE OF 4 H.S. GRADES)									

NUMBER OF STUDENTS IN THIS ANALYSIS = 244

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, AR

COLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE T - 1.3 CORRELATIONS OF ACT SCORES WITH COLLEGE GRADES

ACT TEST SCORES	COLLEGE ENGLISH GPA	COLLEGE MATH GPA	COLLEGE SOC SCI GPA	COLLEGE NAT SCI GPA	COLLEGE OVERALL GPA
ENGLISH	0.146	0.222	0.474	-. . . .	0.201
MATHEMATICS	0.224	0.315	0.290	-. . . .	0.288
READING	-0.028	0.098	0.331	-. . . .	0.181
SCIENCE	0.114	0.258	0.348	-. . . .	0.230
(COMPOSITE)	0.120	0.263	0.406	-. . . .	0.255
MULTIPLE CORRELATION (TESTS 1-4)	0.294	0.363	0.483	-. . . .	0.294
STANDARD ERROR OF ESTIMATE	1.222	1.150	1.070	-. . . .	0.901
NUMBER OF STUDENTS	87	72	65	28	244

SOUTHERN ARKANSAS UNIVERSITY
MAGNOLIA, ARCOLLEGE CODE 0142
SUBGROUP - 2 (FEMALES)

TABLE T - 1.4 CORRELATIONS OF HIGH SCHOOL GRADES WITH COLLEGE GRADES

H.S. GRADES	COLLEGE ENGLISH GPA	COLLEGE MATH GPA	COLLEGE SOC SCI GPA	COLLEGE NAT SCI GPA	COLLEGE OVERALL GPA
ENGLISH	0.324	0.304	0.447	-. . . .	0.351
MATHEMATICS	0.348	0.305	0.306	-. . . .	0.357
SOCIAL STUDIES	0.258	0.127	0.364	-. . . .	0.289
NATURAL SCIENCE	0.308	0.189	0.395	-. . . .	0.329
(HIGH SCHOOL AVERAGE)	0.393	0.313	0.443	-. . . .	0.396
MULTIPLE CORRELATION (GRADES 1-4)	0.400	0.375	0.485	-. . . .	0.403
STANDARD ERROR OF ESTIMATE	1.172	1.144	1.069	-. . . .	0.863
NUMBER OF STUDENTS	87	72	65	28	244