

Pre & Post-Test Results of Expert Systems for Teachers Grant Courses as of July 31, 2015

Interim Report showing content mastery improvement between pre & post-test (219 of 295 enrollments reporting)

Enrollees in Expert Systems for Teachers Online Courses for teachers with new subject assignments

Results posted below for 2014-2015 FL Grant to-date

Undergrad Major	Undergrad Minor	Grad Major	Enrolled Course	School District	University	Pre-Test Grade	Post-Test Grade	Per Cent Score Improvement
Average score for pre and post tests and average improvement:						58%	92%	58%
Human Services	NA	NA	English Level 1	Alachua	UF	51%	85%	67%
Human Services	NA	NA	English Level 2	Alachua	UF	60%	98%	63%
Human Services	NA	NA	English Level 3	Alachua	UF	47%	93%	98%
Human Services	NA	NA	Essay Writing	Alachua	UF	62%	98%	58%
Music, Health and Elem Ed	NA	NA	Introductory Biology	Baker	UNF	58%	100%	72%
History	Political Science	NA	English Level 1	Bay	UNF	70%	75%	7%
English Lit	Math	none	Anatomy & Physiology	Bay	UF	72%	77%	7%
Psychology	Science	none	Earth Science	Bay	UNF	50%	98%	96%
Psychology	Science	none	English Level 1	Bay	UNF	70%	89%	27%
Psychology	Science	none	English Level 2	Bay	UNF	66%	100%	52%
Psychology	Science	none	English Level 3	Bay	UNF	34%	98%	188%
Psychology	Science	none	Exceptional Students	Bay	UNF	60%	100%	67%
Math Ed	NA	NA	AP Physics w Calculus	Bay	UNF	31%	76%	145%
Math Ed	NA	NA	Honors Physics	Bay	UNF	54%	85%	57%
Nutrition	NA	NA	Honors Chemistry	Bay	UF	80%	92%	15%
Elementary Education	NA	NA	Pre-Algebra	Bradford	UF	83%	91%	10%
History	NA	NA	AP Literature	Bradford	UNF	67%	97%	45%
History	NA	NA	AP Language	Bradford	UNF	53%	100%	89%
History	NA	NA	English Level 3	Bradford	UNF	50%	85%	70%
Elementary Ed.	NA	NA	English Level 3	Bradford	UF	55%	98%	78%
Business Administration	NA	NA	Exceptional Students	Bradford	UF	48%	100%	108%
Business Administration	NA	NA	Office Procedures	Bradford	UF	42%	98%	133%
Business Administration	NA	NA	Life Management	Bradford	UF	77%	100%	30%
Art	NA	Library Studies	Exceptional Students	Brevard	UF	73%	96%	32%
Percussion Performance	English	Entrepreneurship	Elementary Music	Brevard	UF	72%	87%	21%
Art	Education	NA	English Level 3	Broward	UNF	40%	97%	143%
Art	Education	NA	British Literature	Broward	UNF	34%	100%	194%
Biology	NA	Biology	Earth Science	Broward	UNF	58%	96%	66%
Pre-K Primary	NA	NA	Language Arts 2-5	Broward	UNF	73%	85%	16%
Foreign Languages	Foreign Languages	NA	US History to 88	Broward	UNF	29%	97%	234%
Communications	NA	Curriculum & Instruction	Exceptional Students	Broward	UF	47%	91%	94%
Criminal Justice	NA	NA	American Government	Broward	UF	34%	94%	176%
Criminal Justice	NA	NA	Confronting Drugs	Broward	UF	51%	90%	76%
FRE	NA	NA	Algebra 1	Broward	UF	34%	98%	188%
FRE	NA	NA	Geometry	Broward	UF	46%	98%	113%

Family, Youth, Community Sciences		FYCS	Physical Science	Broward	UF	85%	91%	7%
Interdisciplinary Studies	NA	NA	7th Grade Science	Broward	UF	78%	100%	28%
Health Science Education	NA	Business Administration	Algebra 1	Broward	UF	50%	90%	80%
Health Science Education	NA	Business Administration	8th Grade Science	Broward	UF	51%	93%	82%
Criminal Justice	NA	Public Admin.	American Government	Broward	UF	26%	96%	269%
Business	Marketing	NA	English Level 1	Broward	UF	41%	95%	132%
Biology	NA	NA	Physical Science	Broward	UNF	62%	100%	61%
Biology	NA	NA	Earth Science	Broward	UNF	41%	100%	144%
Biology	NA	NA	Introductory Biology	Broward	UNF	65%	100%	54%
Biology	NA	NA	Physical Science	Broward	UNF	59%	94%	59%
Biology	NA	NA	Earth Science	Broward	UNF	45%	97%	116%
Biology	NA	NA	Introductory Biology	Broward	UNF	62%	99%	60%
Business Mgt.	NA	Educational Leadership	Geometry	Calhoun	UF	38%	98%	158%
Social Science Ed.	NA	Educational Leadership	Exceptional Students	Charlotte	UF	56%	73%	30%
Business Services	Leisure Services Admin.	NA	Essay Writing	Citrus	UF	62%	98%	58%
Business Services	Leisure Services Admin.	NA	English Level 1	Citrus	UF	76%	93%	22%
Business Services	Leisure Services Admin.	NA	English Level 2	Citrus	UF	80%	98%	23%
Business Services	Leisure Services Admin.	NA	English Level 3	Citrus	UF	56%	97%	73%
business	NA	Marketing	Algebra 2	Collier	UF	58%	96%	66%
ESE	Business Ed.	ESE & Bus. Ed.	English Level 1	Columbia	UF	56%	97%	73%
ESE	Business Ed.	ESE & Bus. Ed.	English Level 2	Columbia	UF	54%	100%	85%
ESE	Business Ed.	ESE & Bus. Ed.	English Level 3	Columbia	UF	33%	98%	197%
Elementary Ed.	NA	NA	Earth Science	Columbia	UNF	50%	99%	98%
Human Services	NA	NA	Earth Science	Columbia	UNF	44%	99%	125%
Speech	NA	NA	Exceptional Students	Columbia	UNF	61%	95%	56%
Elementary Ed.	NA	NA	Elementary Art	Columbia	UNF	67%	80%	19%
Psychology	Criminal Justice	NA	Exceptional Students	Columbia	UNF	60%	76%	27%
Psychology	Criminal Justice	NA	Physical Science	Columbia	UNF	47%	98%	109%
Psychology	Criminal Justice	NA	Earth Science	Columbia	UNF	90%	99%	10%
Elementary Ed.	NA	NA	Exceptional Students	Columbia	UNF	42%	99%	136%
Fine Arts	NA	NA	Exceptional Students	Columbia	UNF	50%	79%	58%
Social Science		NA	Exceptional Students	Columbia	UNF	25%	74%	196%
Elementary Ed.	NA	Health Care Mgt.	Introductory Biology	Columbia	UNF	60%	80%	33%
Elementary Ed.	NA	NA	Keyboarding	Columbia	UF	61%	96%	57%
Exceptional Student Education K	NA	NA	Essay Writing	Columbia	UF	55%	92%	67%
Psychology	Criminal Justice	NA	Marine Science	Duval	UNF	49%	87%	78%
Civil Engineering	NA	Coastal and Oceanographic Eng.	Marine Science	Duval	UNF	49%	83%	69%
Economics	Statistics	Social Studies	Geometry	Duval	UNF	61%	86%	41%
Biology	NA	Social Work	AP Psychology	Duval	UNF	65%	93%	43%
Psychology	NA	NA	British Literature	Duval	UNF	56%	85%	52%
Voice Performance	NA	Music	Elementary Music	Duval	UNF	62%	92%	48%
Visual Arts	NA	NA	Elementary Art	Duval	UNF	82%	96%	17%
Mathematics	Pre-Med	NA	Algebra 2	Duval	UNF	49%	96%	96%
Mathematics	Pre-Med	NA	Geometry	Duval	UNF	40%	77%	93%
Industrial Engineering	NA	NA	Introductory Biology	Duval	UNF	24%	91%	279%
Journalism	Political Science	Political Science	Language Arts 2-5	Duval	UNF	85%	91%	7%

Criminal Justice	Political Science	Psychology	American Government	Duval	UNF	47%	100%	113%
Criminal Justice	Political Science	Psychology	US History to 88	Duval	UNF	37%	99%	168%
Criminal Justice	Political Science	Psychology	Modern World History	Duval	UNF	45%	98%	118%
History	Spanish	NA	Spanish 1	Duval	UNF	69%	73%	6%
Criminal Justice	NA	NA	US History to 88	Duval	UNF	31%	97%	213%
Criminal Justice	NA	NA	World History EM to Present	Duval	UNF	40%	88%	120%
Criminal Justice	NA	NA	Civics	Duval	UNF	76%	80%	5%
Psychology	Sociology	Guidance Counseling	Language Arts 2-5	Duval	UNF	79%	97%	23%
Mathematics	NA	Mathematics	Algebra 2	Duval	UNF	47%	92%	96%
Special Ed.	NA	NA	Geography	Duval	UNF	33%	100%	203%
Special Ed.	NA	NA	World History EM to Present	Duval	UNF	65%	99%	52%
Special Ed.	NA	NA	US History to 88	Duval	UNF	26%	98%	277%
Special Ed.	NA	NA	American Government	Duval	UNF	44%	99%	125%
Psychology	Religion	NA	Physical Science	Duval	UNF	64%	95%	48%
Political Science	Studio Art	NA	Honors Biology	Duval	UNF	67%	73%	9%
Intl. Bus. Admin.	NA	Bus. Admin.	Algebra 1	Duval	UNF	58%	100%	72%
History	Pre-Law	none	World History EM to Present	Duval	UNF	31%	94%	203%
Psychology	Management	none	Algebra 2	Duval	UNF	43%	94%	119%
Psychology	Management	none	Geometry	Duval	UNF	33%	82%	148%
Psychology	Management	none	Pre-Calculus	Duval	UNF	22%	78%	255%
Business Administration	none	none	Algebra 2	Duval	UNF	88%	92%	5%
Business Administration	none	none	Geometry	Duval	UNF	55%	99%	80%
Business Administration	none	none	Trigonometry	Duval	UNF	57%	77%	35%
Business Administration	none	none	Calculus	Duval	UNF	29%	89%	207%
Business Administration	none	none	AP Statistics	Duval	UNF	45%	93%	107%
Business Administration	none	none	Exceptional Students	Duval	UNF	33%	78%	136%
Comm Arts	Theater	Marriage, Family	Pre-Algebra	Duval	UNF	42%	76%	81%
History	Criminal Justice	NA	American Government	Duval	UNF	55%	72%	31%
Math Ed	NA	NA	Algebra 2	Duval	UNF	69%	88%	28%
Math Ed	NA	NA	Pre-Calculus	Duval	UNF	30%	86%	187%
Sociology	Criminal Justice	Sociology	Language Arts 2-5	Duval	UF	64%	92%	44%
Sociology/ Political Science	NA	NA	Language Arts 2-5	Duval	UF	85%	83%	-2%
History	NA	NA	US History	Duval	UF	47%	85%	81%
History	NA	NA	American Government	Duval	UF	68%	95%	40%
HEALTH SCIENCE/HEALTH ADMIN		PK-12 EDUCATION	Pre-Algebra	Duval	UF	58%	76%	31%
Biomedical Science	NA	NA	Physics Through Inquiry	Duval	UF	75%	85%	13%
History	NA	NA	Algebra 2	Duval	UF	61%	76%	25%
Sociology	NA	NA	Civics	Duval	UF	73%	98%	34%
Business Administration	NA	NA	Geometry	Duval	UF	47%	72%	53%
Middle School ELA 6 – 9	NA	NA	Geography	Gilchrist	UF	31%	99%	219%
Elementary Ed.	NA	Speical Ed.	US History to 88	Gilchrist	UF	24%	99%	313%
Biology	NA	NA	US History to 88	Gilchrist	UF	38%	92%	142%
Communications and Sociology		NA	English Level 3	Hillsborough	UF	38%	97%	155%

Business	NA	NA	Office Procedures	Indian River	UF	72%	88%	22%
History and Theology	Art History	Education	Algebra 2	Indian River	UF	71%	96%	35%
K-12 ESE	NA	NA	Algebra 1	Jackson	UF	60%	98%	63%
K-12 ESE	NA	NA	Introductory Biology	Jackson	UF	74%	99%	34%
Business Education	NA	Curriculum and Instruction	English Level 1	Marion	UF	64%	98%	53%
Business Education	NA	Curriculum and Instruction	English Level 2	Marion	UF	29%	100%	245%
Business Education	NA	Curriculum and Instruction	English Level 3	Marion	UF	17%	99%	482%
Social Science	History	ESE	World History EM to Pres	Marion	UNF	65%	86%	32%
Elementary Ed.	NA	NA	Exceptional Students	Marion	UF	29%	93%	221%
Accounting	Business Admin	NA	Pre-Algebra	Marion	UF	75%	84%	12%
Social Science	Bus. Admin/History	M.Ed. and Ed. S. in Social Science	English Level 1	Marion	UF	75%	82%	9%
English	Sociology	Social Science / Education Leadership	Pre-Algebra	Marion	UF	63%	91%	44%
English	Sociology	Social Science / Education Leadership	Algebra 1	Marion	UF	23%	90%	291%
Psychology	Sociology	Counseling/Applied Behavior Analysis	Exceptional Students	Monroe	UF	70%	100%	43%
Art History	NA	Entrepreneurship	Elementary Art	Orange	UF	86%	82%	-5%
Elementary Ed K-6	Reading/ESOL/ESE Endorse	NA	Exceptional Students	Orange	UF	28%	96%	243%
Psychology	NA	Teaching	Algebra 2	Orange	UNF	69%	98%	42%
Psychology	NA	Teaching	Geometry	Orange	UNF	34%	93%	174%
English Translation	NA	Elementary Ed.	Algebra 1	Orange	UNF	78%	84%	8%
English Translation	NA	Elementary Ed.	Algebra 2	Orange	UNF	78%	100%	28%
English	Spanish	Curr. & Instruction	Newspaper Production	Palm Beach	UF	84%	97%	15%
English	Spanish	Curr. & Instruction	Journalism	Palm Beach	UF	73%	98%	34%
Exceptionalities	none	none	English Level 1	Palm Beach	UNF	82%	87%	6%
Exceptionalities	none	none	English Level 2	Palm Beach	UNF	55%	90%	64%
Biology	Government	Biology/Environmental Toxicology	Earth Science	Palm Beach	UF	39%	100%	156%
Psychology	none	none	Journalism	Palm Beach	UNF	83%	99%	19%
Psychology	none	none	Newspaper Production	Palm Beach	UNF	82%	99%	21%
ESE Autism	Business	Education	Career Planning	Palm Beach	UNF	91%	89%	-2%
TSOL.English	NA	TESOL	English Level 1	Palm Beach	UNF	42%	97%	131%
TSOL.English	NA	TESOL	English Level 2	Palm Beach	UNF	48%	96%	100%
TSOL.English	NA	TESOL	English Level 3	Palm Beach	UNF	14%	98%	600%
TSOL.English	NA	TESOL	Essay Writing	Palm Beach	UNF	50%	98%	96%
Psychology / Sci. / Nursing		Nursing	Anatomy & Physiology	Palm Beach	UF	71%	75%	6%
Biology	NA	NA	Honors Chemistry	Palm Beach	UF	83%	98%	18%
Criminal Justice	NA	NA	Introductory Biology	Palm Beach	UF	50%	79%	58%
Criminal Justice	NA	NA	Earth Science	Palm Beach	UF	53%	91%	72%
BS in Biology	NA	none	Earth Science	Palm Beach	UNF	44%	99%	125%
Sociology	Social Science	Sociology	MS Journalism	Palm Beach	UNF	60%	76%	27%
Sociology	Social Science	Sociology	Journalism	Palm Beach	UNF	63%	98%	56%
Sociology	Social Science	Sociology	Yearbook Production	Palm Beach	UNF	62%	100%	61%
Banking	none	Elementary & ESE	7th Grade Science	Palm Beach	UNF	72%	80%	11%
Banking	none	Elementary & ESE	8th Grade Science	Palm Beach	UNF	79%	86%	9%
Latin American Studies	NA	NA	Spanish 1	Pasco	UNF	75%	87%	16%
Elementary Ed	Primary Ed	NA	Elementary Art	Pasco	UNF	76%	90%	18%
Business Admin/Mgt	NA	Ind. Org. Psych/Leadership Coaching	Office Procedures	Pinellas	UF	60%	81%	35%
Business Admin/Mgt	NA	Ind. Org. Psych/Leadership Coaching	Civics	Pinellas	UF	61%	74%	21%

Business Admin/Mgt	NA	Ind. Org. Psych/Leadership Coaching	English Level 1	Pinellas	UF	55%	72%	31%
Visual Art Education (K-12)	NA	NA	Earth Science	Pinellas	UF	50%	92%	84%
Liberal Arts	NA	NA	Algebra 1	Pinellas	UF	40%	92%	130%
Liberal Arts	NA	NA	Geometry	Pinellas	UF	27%	93%	244%
Math Ed	NA	NA	Algebra 2	Pinellas	UNF	49%	86%	76%
Political Science	German	Political Science	Pre-Algebra	Pinellas	UNF	73%	83%	14%
Political Science	German	Political Science	Algebra 1	Pinellas	UNF	64%	86%	34%
Political Science	German	Political Science	Algebra 2	Pinellas	UNF	35%	76%	117%
Political Science	German	Political Science	Geometry	Pinellas	UNF	48%	77%	60%
Ele. Ed./Early Childhood Ed.	NA	NA	Exceptional Students	Pinellas	UF	67%	92%	37%
Social Work	NA	NA	ESL	Pinellas	UF	68%	100%	47%
Business Admin.	NA	Business Admin. & Education	Algebra 1	Polk	UF	58%	86%	48%
Business Admin.	NA	Business Admin. & Education	Physical Science	Polk	UF	47%	84%	79%
Business Admin.	NA	Business Admin. & Education	US History to 88	Polk	UF	40%	90%	125%
Business Admin.	NA	Business Admin. & Education	English Level 1	Polk	UF	58%	95%	64%
Business Admin.	NA	Business Admin. & Education	English Level 2	Polk	UF	83%	99%	19%
Political Science	NA	Ed. Leadersshp	English Level 1	Polk	UF	74%	98%	32%
Biology	NA	Science Ed.	AP Physics w Calculus	Polk	UNF	44%	93%	111%
Biology	NA	PhD Science Education	Physical Science	Polk	UNF	84%	98%	17%
Special Ed	NA	NA	Language Arts 2-5	Polk	UNF	69%	98%	42%
Org Mgt	NA	NA	7th Grade Science	Polk	UNF	75%	99%	32%
Business Administration	NA	NA	7th Grade Science	Polk	UNF	69%	95%	38%
Pastoral Ministry	NA	NA	Pre-Algebra	Polk	UNF	64%	89%	39%
Pastoral Ministry	NA	NA	Algebra 1	Polk	UNF	68%	70%	3%
Sociology	NA	Community Counseling Psychology	Language Arts 2-5	Polk	UF	88%	90%	2%
ESE	NA	ESE	Algebra 1	Putnam	UNF	50%	98%	96%
ESE	NA	ESE	Geometry	Putnam	UNF	19%	99%	421%
Psychology	History	NA	Algebra 1	Putnam	UF	60%	90%	50%
History	NA	Teaching, Museum Ed.	English Level 1	Putnam	UNF	91%	97%	7%
History	NA	Teaching, Museaum Ed.	Essay Writing	Putnam	UNF	65%	97%	49%
Biology	NA	Biology	Chemistry	Putnam	UNF	85%	100%	18%
Biology	NA	Biology	Honors Chemistry	Putnam	UNF	88%	98%	11%
Psychology	English	Curriculum and Instruction	AP Psychology	San Diego	UF	61%	96%	57%
Management	NA	NA	Exceptional Students	Seminole	UF	47%	75%	60%
Management	NA	NA	Pre-Algebra	Seminole	UF	66%	88%	33%
Elementary Education	Liberal Arts	Educational Technology	MS Journalism	St Johns	UF	81%	87%	7%
Biology	Public Health	NA	Chemistry	St Johns	UNF	80%	98%	23%
Biology	Public Health	NA	Physical Science	St Johns	UNF	72%	98%	36%
Theater Arts	NA	NA	8th Grade Science	St Johns	UNF	76%	80%	5%
Theater Arts	NA	NA	American Government	St Johns	UNF	55%	80%	45%
Biology	NA	Secondary Ed.	Earth Science	St Johns	UNF	71%	85%	20%
Literature	NA	Counseling	World History EM to Present	St Johns	UNF	70%	98%	40%
Literature	NA	Counseling	AP Psychology	St Johns	UNF	55%	99%	80%
General Studies	NA	Elementary Education	Algebra 2	St Lucie	UF	66%	92%	39%

Human Services	behavioral science	Exceptional Student Education	Essay Writing	St Lucie	UF	45%	98%	118%
Human Services	behavioral science	Exceptional Student Education	8th Grade Science	St Lucie	UF	32%	78%	144%
Chemistry	NA	NA	Chemistry	St Lucie	UF	71%	89%	25%
Chemistry	NA	NA	Honors Chemistry	St Lucie	UF	79%	84%	6%
Chemistry	NA	NA	Honors Physics	St Lucie	UF	31%	93%	200%
Elementary Ed.	NA	Curr. & Instruction	Exceptional Students	St. Lucie	UF	66%	84%	27%
Earth & Marine Sci.	Mathematics	Curr. Instruction	Introductory Biology	St. Lucie	UNF	64%	96%	50%
Earth & Marine Sci.	Mathematics	Curr. Instruction	Chemistry	St. Lucie	UNF	63%	81%	29%
Civil Engineering	NA	Engineering Mgt / Environmental Sci.	Pre-Algebra	St. Lucie	UF	63%	80%	27%
History/Social Studies 6-12	Secondary Ed.	NA	English Level 1	Volusia	UF	73%	83%	14%
Health Science	Public Health	NA	8th Grade Science	Volusia	UF	64%	100%	56%
Ele. Ed.	none	Art	Pre-Algebra	Volusia	UNF	58%	85%	47%
Health Science	ESE w ESOL	NA	English Level 1	Volusia	UNF	79%	100%	27%
Health Science	ESE w ESOL	NA	Algebra 2	Volusia	UNF	79%	90%	14%
Biology	Chemistry	NA	Honors Physics	Walton	UF	50%	95%	90%
ESE	NA	Science Ed.	Chemistry	Walton	UNF	86%	89%	3%
Computer Science	Curr. & Instruction	NA	Physical Science	Walton	UNF	60%	75%	25%
Biology	NA	Ed. Leadership	Chemistry	Walton	UNF	92%	98%	7%
Average score for pre and post tests and average improvement:						58%	92%	58%

156 of the 231 teachers reported here to-date failed the pre-test with a score of 70% or less. Of all 295 enrollments, only 27% passed the pre-test. All who have taken the post-test have passed after receiving and using the instructional materials and mentoring support over a sustained period.

If results for post-test continue as currently reported, pass rate with the instructional support provided will go from 27% to close to 100%.

Common Sense conclusion: If teachers are better prepared for their new assignments, with subject-specific instructional and mentoring support, they will be able to demonstrate content mastery leading to improved student achievement

The enrollments in these courses was funded by a \$500,000 state grant in the FL 2014-2015 budget and is funded by a \$700,000 grant for 2015-16.