

Florida Advanced Technological Education Center of Excellence FLATE



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2009-2014 Florida Engineering Technology and Related Program Student Enrollment and Completion 5-Year Trend Study

FLATE, a National Science Foundation Regional Center of Excellence, annually requests and compiles student enrollment and completion data for the Engineering Technology (ET) and related A.S. and B.S. degrees and college credit certificate (CCC) programs for Florida colleges, and for related technology programs at the secondary and PSAV level. These data, provided by the Florida Department of Education, are reliable but do not include enrollment for undeclared majors or enrollment in duplicate programs (such as certificates under degree programs). College Registrar reporting/cut dates also result in some reported enrollment discrepancies. Minor anomalies may occur as older program titles are collapsed and new program titles are added. This review contains six sections and an appendix with individual ET adopting college performance and presents a 5-year trend study which includes the 2013-14 FLDOE report year.

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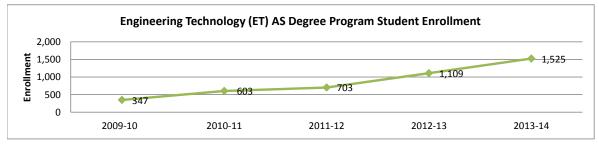
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Section I: Florida Engineering Technology (ET) and Related AS Degree Program Student Enrollment

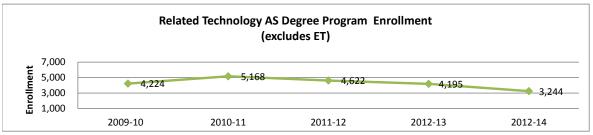
I a. Engineering Technology (ET)					
AS Degree Program Student Enrollment	2009-10	2010-11	2011-12	2012-13	2013-14
Engineering Technology (ET) AS Student Enrollment	347	603	703	1,109	1,525
Number of Colleges Adopting the Program*	9	10	14	14	15

^{*}Out ofFlorida's 28 Community and State Colleges



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I b. Related Technology AS Degree Program Student					
Enrollment	2009-10	2010-11	2011-12	2012-13	2013-14
Excludes ET Degree and College Credit Certificate					
Programs	4,224	5,168	4,622	4,195	3,244



In 2012-13 ET AS Degree program represented 21% of total Florida technology AS degree program enrollment (N=5,304). In 2013-14 ET AS Degree program represented 32% of total Florida technology AS degree program enrollment (N=4,769).

I c. Selected Demographic Profile for ET and Related Technology AS Degree Program Enrolled Students							
	2009-10	2010-11	2011-12	2012-13	2013-14		
ET Technology Program % Female Enrollment	14%	15%	11%	9%	10%		
Related Technology Program % Female Enrollment	22%	24%	22%	19%	16%		
	•	·-					
ET Technology Program % Minority Enrollment	30%	34%	37%	41%	55%		
Related Technology Program % Minority Enrollment	41%	40%	45%	45%	50%		

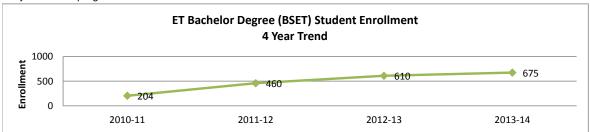
AS Degree Programs	2009-10	2010-11	2011-12	2012-13	2013-14
(13) Engineering Technology (ET) Degree Enrollment	347	603	703	1,109	1,525
Note - FLDOE does not provide ET enrollment by specialization.					
(1) Aerospace Technology	86	67	55	66	89
(5) Biomedical Engineering Technology	365	466	450	380	242
(1) Chemical Technology	547	646	655	611	267
(2) Computer Integrated Manufacturing	59	58	30	11	7
(16) Drafting & Design Technology	1,207	1,148	974	742	609
(3) Electrical Distribution Technology (adopted 2010)		41	45	31	35
(3) Electrical Power Technology (adopted 2010)		335	406	433	319
(13) Electronics Engineering Technology	1,271	1,348	1,346	1,333	1,187
(15) Industrial Management Technology	761	805	621	542	459
(2) Manufacturing Technology	33	33	24	16	10
(1) Simulation and Robotics Technology	38	29	30	27	19
(1) Supply Chain Management		9	6	3	1
Total Degree Enrollment /ET and Related	4130	4714	5588	5,304	4,769

I e. ET Bachelor Degree (BSET) Student Enrollment with # Offering Colleges Shown in ()	New Programs- 2010
Total BSET Enrollment	
Offering College & Program Name with Enrollment	
Daytona State College* - Engineering Technology	_
State College of Florida** - Energy Technology Manageme	ent
Miami Dade College - Electronics Engineering Technology	<u>'</u>
Valencia College - Electronics Engineering Technology	_

20	10-11	2011-12	2012-13	2013-14
2	04 (2)	460 (4)	610 (4)	675 (4)

165	306	396	380
none reported	15	23	27
39	73	95	125
none reported	66	96	143

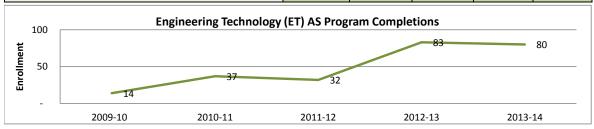
^{*} Hybrid online program **Selected courses available online



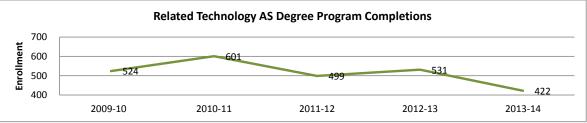
I f. BSET Enrollment Demographic Profile	2010-11	2011-12	2012-13	2013-14
% Female BSET Enrollment	13%	15%	19%	17%
% Minority BSET Enrollment	38%	38%	40%	54%

Section II: Florida Engineering Technology (ET) and Related Degree Program Student Completion

II a. Engineering Technology (ET)					
AS Degree Program Completion	2009-10	2010-11	2011-12	2012-13	2013-14
	14	37	32	83	80



Il b. Related Technology AS Degree Completion	2009-10	2010-11	2011-12	2012-13	2013-14
Excludes ET Degree and College Credit Certificate					
Programs	524	601	499	531	422

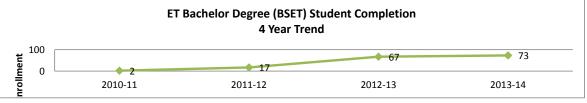


In 2012-13 the ET AS Degree program represented 13.5 % of total Florida technology AS degree program completions (N=614). In 2013-14 the ET AS Degree program represented 16 % of total Florida technology AS degree program completions (N=502).

II c. Selected Demographic Profile for ET and Related Technology AS Degree Program Completion							
	2009-10	2010-11	2011-12	2012-13	2013-14		
ET Technology Program % Female Completion	7%	16%	12%	12%	17%		
Related Technology Program % Female Completion	22%	19%	18%	19%	17%		
ET Technology Program % Minority Completion	22%	30%	31%	33%	34%		
Related Technology Program % Minority Completion	33%	35%	39%	30%	39%		

Il d. Engineering Technology and Related Technology College Degree Completion by Program (does not include college credit certificates)							
AS Degree Completion	2009-10	2010-11	2011-12	2012-13	2013-14		
Aerospace Technology	11	18	8	9	13		
Biomedical Engineering Technology	30	35	31	53	38		
Chemical Technology	19	34	37	34	23		
Computer Integrated Manufacturing	6	5	4	2	2		
Drafting & Design Technology	124	132	102	90	79		
Electrical Distribution Technology*		1	3	3	2		
Electrical Power Technology *		45	69	87	49		
Electronics Engineering Technology	93	123	100	107	116		
Engineering Technology	14	37	32	83	80		
Industrial Management Technology	237	199	134	141	98		
Manufacturing Technology	3	5	4	3	0		
Simulation & Robotics Technology	1	4	7	2	2		
Supply Chain Management		0	0	0	0		
Total College Completion	538	638	531	614	502		

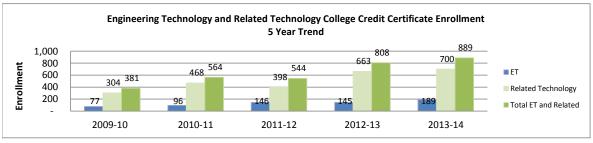
II e. ET Bachelor Degree (BSET) Completion	New Programs	2010-11	2011-12	2012-13	2013-14
Total BSET Completion		2	17	67	73



II f. BSET Demographic Profile		2010-11	2011-12	2012-13	2013-14
BSET % Female Completion		0%	**6%	13%	7%
BSET % Minority Completion		*100%	0%	66%	36%
Note: Small numbers such as 1 or 2 tend to skew % completion relevance	3	*n=2	**n=1		

Section III: Florida ET and Related College Credit Certificate (CCC) Student Enrollment by Program

ET Program College Credit Certificate Enrollment	2009-10	2010-11	2011-12	2012-13	2013-14
(3) CCC - Alternative Energy Engineering Technology (new progra	am)	7	14	13	5
(2) CCC - Alternative Energy Systems Specialist (new program)		10	20	9	12
(1) CCC - Applied Technology Specialist	13	12	15	9	6
(2) CCC - Automation	2	5	2	7	9
(3) CCC - CNC Machinist	5	12	16	16	32
(1) CCC - Composite Fabrication & Testing (new program)		1	11	7	4
(3) CCC - Computer Aided Design & Drafting (new program)			2	14	21
(1) CCC - Computerized Woodworking	0	0	1	1	0
(3) CCC - Electronics Aide			2	1	3
(8) CCC - Engineering Technology Support Specialist	20	16	28	36	33
(2) CCC - Lean Manufacturing	20	1	1	1	2
(2) CCC - Lean Six Sigma Green Belt	12	21	13	10	16
(1) CCC - Medical Quality Systems (new)			4	3	16
(4) CCC - Pneumatics, Hydraulics & Motors for Manufacturing (ne	w program)		3	5	21
(1) CCC - Six Sigma Black Belt	5	11	14	13	9
Total ET Program College Credit Certificate Enrollment	77	96	146	145	189
Related Technology College Credit Certificate Enrollme	ent by Progra	m			
(13) CCC - AutoCAD Foundations	245	269	189	186	183
(2) CCC - Chemical Laboratory Specialist	15	10	30	52	58
(1) CCC - Electrical Distribution, Advanced		7	6	4	3
(1) CCC - Electrical Distribution, Basic		8	22	26	29
(2) CCC - Electronics Technician, Basic	28	129	79	89	83
(4) CCC - Electronics Technician	13	26	17	22	16
(1) CCC - Laser and Photonics Technician	3	8	12	15	17
(5) CCC - Logistics & Transportation Specialist (new program)		9	40	248	152
(1) CCC - Robotics and Simulation Technology (new program)		1	2	0	0
(2) CCC - Scientific Workplace Prep		1	1	21	159
Related Technology College Credit Certificate Enrollment	304	468	398	663	700
Combined ET & Related Technology Certificate Enrollment	381	564	544	808	889



ET & Related College Credit Certificate Enrollment					
Demographic Profile	2009-10	2010-11	2011-12	2012-13	2013-14
% ET & Related CCC Female Enrollment	19%	19%	20%	29%	33%
% ET & Related CCC Minority Enrollment	41%	41%	41%	52%	44%

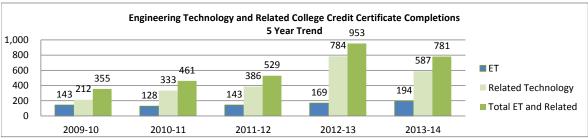
Growth to 29% in % female enrollment in 2012-13 is primarily attributed to 115 females enrolled in Logistics & Transportation Specialist CCC at FL State College at Jax.

Growth to 33% in % female enrollment in 2013-14 is primarily attributed to 116 females enrolled in Scientific Workplace CCC at Eastern FL State College.

Section IV: Florida ET and Related College Credit Certificate Student Completion by Program

ET Certificate Student Completion by Program	2009-10	2010-11	2011-12	2012-13	2013-14
CCC - Alternative Energy Engineering Technology (new program)			4	4	4
CCC - Alternative Energy Systems Specialist (new program)		1	8	9	9
CCC - Applied Technology Specialist	22	2	8	7	8
CCC - Automation	2	5	1	7	8
CCC - CNC Machinist	7	11	23	21	33

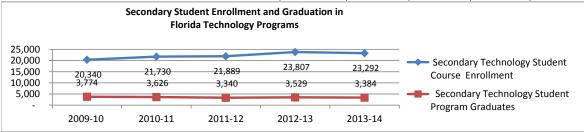
	13	8	12	5
			3	8
1	2	6	7	2
9	1	5	6	15
36	35	33	43	61
20	0	3	1	4
24	33	31	28	27
22	25	13	21	10
143	128	143	169	194
161	167	190	419	211
24	111	88	78	102
8	12	26	10	25
6	4	3	12	32
		9	1	1
	13	2	1	2
2	8	25	13	20
	5	30	203	126
		1	5	9
		3	6	22
11	13	9	36	37
212	333	386	784	587
355	461	529	953	781
	36 20 24 22 143 161 24 8 6	1 2 9 1 36 35 20 0 24 33 22 25 143 128 161 167 24 111 8 12 6 4 13 2 8 5	1 2 6 9 1 5 36 35 33 20 0 3 24 33 31 22 25 13 143 128 143 161 167 190 24 111 88 8 12 26 6 4 3 9 13 2 2 8 25 5 30 1 1 3 9 212 333 386	1 2 6 7 9 1 5 6 36 35 33 43 20 0 3 1 24 33 31 28 22 25 13 21 143 128 143 169 161 167 190 419 24 111 88 78 8 12 26 10 6 4 3 12 9 1 13 2 1 2 8 25 13 5 30 203 1 5 3 6 11 13 9 36 212 333 386 784



ET & Related College Credit Certificate Completion					
Demographic Profile	2009-10	2010-11	2011-12	2012-13	2013-14
% ET & Related CCC Female Completion	32%	23%	20%	34%	25%
% ET & Related CCC Minority Completion	40%	40%	47%	61%	50%

Section V: Secondary Student Enrollment and Graduation in Florida Technology Programs

V a. Total Secondary Student Enrollment and Graduation - 5 Year Trend	2009-10	2010-11	2011-12	2012-13	2013-14
Number of Secondary Technology Programs Offered	562	612	615	654	647
Total Secondary Technology Student Course Enrollment	20,340	21,730	21,889	23,807	23,292
Total Secondary Technology Student Program Graduates	3,774	3,626	3,340	3,529	3,384



V b. Secondary Student Enrollment by Technology Program					
Program Title	2009-10	2010-11	2011-12	2012-13	2013-14
Applied Welding	1,372	1,157	1,208	1,116	1,495
Automation & Production Technology (FLDOE adopted 2010)	37	26	55	186	336
Electronic System Assembly	5	5	4	0	0
Electronics Technology	603	635	385	383	301
Energy Generation Technician (FLDOE adopted 2012)				10	-
Engineering Assisting	351	283	174	87	113
Engineering Technology	6,853	6,438	6,840	7,329	6,050

Program Title	2009-10	2010-11	2011-12	2012-13	2013-14
Industrial Biotechnology	285	201	262	336	508
Industrial Machinery Maintenance & Repair	*22	228	164	194	231
Machining	145	175	189	157	172
Materials and Processes Technology	3,942	3,030	2,112	1,964	1,694
Pathways to Engineering	4,181	7,362	8,140	9,669	10,682
Production Technology	1,584	1,440	1,711	2,081	1,373
Precision Metal Fabrication	45	1	0	0	8
Solar Energy Technology (FLDOE adopted 2011)		78	173	66	118
Technology Systems	915	670	472	222	211
Total Secondary Student Course Enrollment	20,340	21,730	23,800	23,807	23,292

^{*} n=22 confirmed with FLDOE; state reporting anomaly

V c. Secondary Level Technology Student Graduates by Technology	hnology Progra	ım			
Secondary Student Graduates by Technology Program					
Program Title	2009-10	2010-11	2011-12	2012-13	2013-14
Applied Welding	741	216	195	731	254
Automation & Production Technology (FLDOE adopted 2010)	9	9	6	114	49
Electronic System Assembly	1	=	1	-	-
Electronics Technology	457	116	49	121	49
Energy Generation Technician (New program - FLDOE adopted	2012)			-	
Engineering Assisting	545	16	14	14	26
Engineering Technology	634	904	834	933	652
Industrial Biotechnology	32	15	12	69	78
Industrial Machinery Maintenance & Repair	81	27	50	42	67
Machining	6	34	25	58	11
Materials and Processes Technology	380	707	410	171	347
Pathways to Engineering	512	1,192	1,332	940	1,500
Precision Metal Fabrication	none reported	1	0	0	1
Production Technology	213	250	317	301	304
Sheet Metal Fabrication Technology	32	-	-	-	-
Solar Energy Technology (FLDOE adopted 2011)		19	21	-	31
Technology Systems	131	120	74	35	15
Total Secondary Student Technology Program Graduates	3,774	3,626	3,340	3,529	3,384

V d. Selected Demographic Profile for Secondary Technology Programs including Internships					
2009-10	2010-11	2011-12	2012-13	2013-14	
16%	16%	16%	16%	15%	
47%	50%	48%	49%	48%	
18%	17%	17%	17%	16%	
49%	50%	49%	49%	48%	
2009-10	2010-11	2011-12	2012-13	2013-14	
265	250	109	6	0	
80	92	40	0	0	
185	158	69	6	0	
30%	37%	40%	0%	0%	
	16% 47% 18% 49% 2009-10 265 80 185	16% 16% 47% 50% 18% 17% 49% 50% 2009-10 2010-11 265 250 80 92 185 158	16% 16% 16% 47% 50% 48% 18% 17% 17% 49% 50% 49% 2009-10 2010-11 2011-12 265 250 109 80 92 40 185 158 69	16% 16% 16% 16% 47% 50% 48% 49% 18% 17% 17% 17% 49% 50% 49% 49% 2009-10 2010-11 2011-12 2012-13 265 250 109 6 80 92 40 0 185 158 69 6	

^{*}FLATE queried the FLDOE regarding the significant decrease in secondary technology program internships for academic year 2012-13 and received the following reply: "We checked the secondary data for 11-12 and 12-13. In 11-12 there were two districts that reported internship participants for the requested [secondary technology] programs—29 — Hillsborough reported 96 and 53-Polk reported 13. For 12-13 Polk was the only district that reported and they had 6. So it appears the report is correct." No high school internships were reported for 2013-14.

VI. Post-Secondary Adult Vocational (PSAV) Enrollments, OCP, and Completions							
PSAV FLDOE Report Categories	2009-10	2010-11	2011-12	2012-13	2013-14		
Enrollment		1,577	1,559	1,475	1,639		
Occupational Completion Point (OCP) Earners		2,279	2,141	2,392	2,617		
Full Program Completer		522	525	525	596		
Number of Programs Offered		9	7	6	8		
Number of Participating Institutions		30	37	35	33		
Report revised in 2010-11 to include a more comprehensive range of							
technology programs	PSAV Enrollment by Program						
	2009-10	2010-11	2011-12	2012-13	2013-14		
Applied Welding Technologies		1,175	1,196	1,248	1,335		
Automation & Production Technology		6	5	0	2		
Electrical & Instrumentationl Technology		92	0	0	34		
Electronic System Assembly		1	0	4	2		
Industrial Machinery Maintenance & Repair		50	60	44	39		
Industrial Technology		8	12	9	9		
Machining		148	174	165	212		
Solar Energy Technology (adopted 2010)		66	109	0	6		

Appendix: Total ET & Related Technology Enrollment by College

5-Year Engineering Technology and Related Technology Program Enrollment

Includes Total Student Enrollment by College for ET and Related Technology AS Degrees and ET and Related College Credit Certificates

Source: FLDOE College Credit Student Data Base

Highlight indicates adoption of ET Degree	2009-10	2010-11	2011-12	2012-13	2013-14
Broward College	176	212	260	346	361
College of Central Florida	101	109	102	85	65
Chipola College	0	0	1	0	0
Daytona State College	203	225	181	152	147
Eastern Florida State College	967	1,082	1,041	1,003	835
Florida Gateway College	2	23	19	20	30
Florida State College at Jacksonville	405	430	331	574	581
Gulf Coast State College	113	128	120	108	114
Hillsborough Community College	288	337	282	324	319
Indian River State College	330	370	337	335	281
Lake Sumter Community College		40	65	58	58
Miami Dade College	269	485	507	498	408
NorthWest Florida State College	332	313	259	229	172
Palm Beach State College	70	199	176	182	158
Pasco-Hernando Community College	87	80	82	65	64
Pensacola State College	169	202	209	275	259
Polk State College	14	82	138	137	187
Santa Fe College	157	205	178	132	78
Seminole State College	84	78	64	51	56
South Florida Community College	43	54	32	33	15
SouthWestern Florida State College (Formerly Edison)	247	222	195	123	63
St. Johns River State College	66	51	31	27	26
St. Petersburg College	205	259	292	313	362
State College of Florida Manatee-Sarasota	136	138	171	153	154
Tallahassee Community College	102	135	155	137	102
Valencia Community College	529	693	661	752	763
Total Enrollment for all Institutions*	5,095	6,152	5,889	6,112	5,658

^{*}The Total Enrollment by College appendix includes AS enrollment for Engineering Technology (ET) and Related Technology AS programs and ET and Related Technology College Credit Certificates (CCC). All data reported here is extracted by reports provided by the FLDOE. Reporting by FLATE in this report begins with college ET adoption year. Some new adopters and programs are too recent to display FLDOE data.

Enrollment discrepancies may exist due to enrollment coding at the individual institutional level, for instance, a student working towards the ET AS degree may be coded as a certificate enrollment, change of major form has not been recorded, or reporting by the office of the registrar may be in error, etc. Certificates refer to College Credit Certificates (CCC).

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5-Year Enrollment Breakout for Colleges Adopting the Engineering Technology (ET) Degree Program

College Name and Enrollment Type	2009-10	2010-11	2011-12	2012-13	2013-14
Broward College (BC) Adopted ET 2012	*	<u> </u>	•		
ET AS Degree Enrollment				147	271
ET Certificate Enrollment			2	3	
Related AS Degree Enrollment			257	181	75
Related Certificate Enrollment			1	15	15
Total			260	346	361
College of Central Florida (CCF) Adopted ET 2008				1	
ET AS Degree Enrollment	37	42	43	56	48
ET Certificate Enrollment Related AS Degree Enrollment	2 62	2 65	0 59	1 28	3 14
Related AS Degree Enrollment Related Certificate Enrollment	02	03	39	20	14
Total	101	109	102	85	65
Daytona State College (DSC) Adopted ET 2012	101	100	102	001	- 00
ET AS Degree Enrollment			T	not v	et reported
			4	TIOL y	et reported
ET Certificate Enrollment			1		
Related AS Degree Enrollment			163	147	134
Related Certificate Enrollment			17	5	13
Total			181	152	147
Eastern Florida State College (EFSC) Adopted ET 2008					
ET AS Degree Enrollment	138	199	162	174	198
ET Certificate Enrollment	16	25	51	32	30
Related AS Degree Enrollment	784	841	789	750	443
Related Certificate Enrollment Total	29	17 967	1,082	1.041	164 835
Florida Gateway College (FGC) Adopted ET 2009		907	1,002	1,041	033
ET AS Degree Enrollment	2	10	9	8	20
ET Certificate Enrollment	۷	10	4	5	20
Related AS Degree Enrollment		6	1	1	0
Related Certificate Enrollment		6	5	6	8
Total	2	23	19	20	30
Florida State College at Jax (FSCJ) Adopted ET 2009					
ET AS Degree Enrollment	47	70	58	84	136
ET Certificate Enrollment	3	16	15	15	166
Related AS Degree Enrollment	340	324	205	196	208
Related Certificate Enrollment	15	20	53	279	71
Total	405	430	331	574	581
Gulf Coast State College (GCSC) Adopted ET 2012					
ET AS Degree Enrollment					51
ET Certificate Enrollment			6	2	1
Related AS Degree Enrollment			110	101	57
Related Certificate Enrollment Total			120	5 108	5 114
Hillsborough Community College (HCC) Adopted ET 2008			120	100	114
ET AS Degree Enrollment	6	14	25	73	105
ET Certificate Enrollment*	20	2	3	11	11
Related AS Degree Enrollment	218	259	214	201	168
Related Certificate Enrollment	44	62	40	39	35
Total	288	337	282	324	319
*90% loss of 2010-11 HCC ET certificate enrollment is due					319
NorthWest Florida State College (NWFSC) Adopted ET 2012					
ET AS Degree Enrollment				45	67
ET Certificate Enrollment				5	7
Related AS Degree Enrollment			258	171	96
Related Certificate Enrollment			1	8	2
Total			259	229 Appendix pa	172

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College Name and Enrollment Type continued	2009-10	2010-11	2011-12	2012-13	2013-14	
Pensacola State College (PSC) Adopted ET 2008						
ET AS Degree Enrollment				75	77	
ET Certificate Enrollment	5	7	10	14	12	
Related AS Degree Enrollment	157	192	192	180	164	
Related Certificate Enrollment	7	3	7	6	6	
Total	169	202	209	275	259	
Polk State College (PSC) Adopted ET 2009						
ET AS Degree Enrollment	5	42	98	118	168	
ET Certificate Enrollment					0	
Related AS Degree Enrollment	9	40	40	19	19	
Related Certificate Enrollment					0	
Total	14	82	138	137	187	
St. Petersburg College (SPC) Adopted ET 2008						
ET AS Degree Enrollment	90	128	160	183	221	
ET Certificate Enrollment	31	36	32	46	66	
Related AS Degree Enrollment	77	87	93	84	75	
Related Certificate Enrollment	7	8	7	0.10	0	
Total	205	259	292	313	362	
Seminole State College (SSC) Adopted ET 2014						
ET AS Degree Enrollment				not yet r	eported	
ET Certificate Enrollment						
Related AS Degree Enrollment					37	
Related Certificate Enrollment					19	
Total					56	
State College of Florida Manatee-Venice (SCF) Adopted E	T 2009					
ET AS Degree Enrollment		98	148	146	145	
ET Certificate Enrollment				1	2	
Related AS Degree Enrollment	136	40	23	6	3	
Related Certificate Enrollment					4	
Total	136	138	171	153	154	
Tallahassee Community College (TCC) Adopted ET 2011						
ET AS Degree Enrollment					18	
ET Certificate Enrollment			4	1	5	
Related AS Degree Enrollment		135	150	128	74	
Related Certificate Enrollment			1	8	5	
Total		135	155	137	102	

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