



HLC Accreditation 2016-2017

## **Evidence Document**

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Academic Affairs

Office of Planning and Analysis

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### **Student Early Alert System (SEAS): End-of-Term Report Fall 2015**

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**Additional information:**

Table 1: Student Early Alert System (SEAS) End-of-Term Fall 2015 (**COURSE LEVEL**)  
 448 class sections, 246 instructors (unique headcount) and 10,561 students (unique headcount, 73% of 20thday)

College/Department	Section counts			Mean number of students per class					
	Total	enrolled	at risk	pct at risk	enrolled	at risk	pct at risk		
	448	100%	% at risk	33.8	7.8	25.8%			
Business:	51	11.4%	15.5%	<b>Mean # Students per class marked at risk of:</b>					
Education:	20	4.5%	13.4%	attendance	assignments	participation	exams		
Engineering:	45	10.0%	31.4%	2.92	3.78	2.32	4.73		
Fine Arts:	39	8.7%	30.7%						% stds
Health Professions:	71	15.8%	22.9%	<b>Class Dimensions:</b>		<b>Section Counts</b>		<b>at risk</b>	
LAS Humanities:	87	19.4%	29.3%	<b>Course number group:</b>			100%		
LAS Natural Sciences & Math:	51	11.4%	27.2%	0 thru 99		3	0.7%	low count	
LAS Social Sciences:	77	17.2%	27.4%	100 thru 199		121	27.0%	27.2%	
LAS Other:	7	1.6%	low count	200 thru 299		68	15.2%	23.6%	
Business:		100%		300 thru 399		126	28.1%	26.9%	
1001 Accounting:	9	17.6%		400 thru 499		48	10.7%	23.6%	
1002 Economics:	17	33.3%		500 thru 599		38	8.5%	23.4%	
1003 FREDS:	7	13.7%		600 thru 699		16	3.6%	26.2%	
1004 Management:	14	27.5%		700 thru 799		16	3.6%	20.8%	
1005 Marketing:	4	7.8%		800 thru 899		10	2.2%	33.4%	
Education:		100%		900 thru 999		2	0.4%	low count	
2001 Cnsl, Ed Ldrs, Ed and Schl Psy (CLES):	2	10.0%		<b>Time of day:</b>		100%			
2002 Curriculum and Instruction (CI):	10	50.0%		morning		189	55.1%	25.9%	
2004 Human Performance Studies (HPS):	5	25.0%		afternoon		91	26.5%	24.2%	
2005 Sport Management (SMGT):	3	15.0%		evening		63	18.4%	27.0%	
Engineering:		100%		arranged		105	n/a	26.5%	
3001 Aerospace Engineering:	8	17.8%		<b>Meetings per week:</b>		100%			
3002 Electrical Engineering:	16	35.6%		meets 1 weekday		78	22.7%	25.8%	
3003 Industrial Engineering:	5	11.1%		meets 2 weekdays		201	58.6%	24.8%	
3004 Mechanical Engineering:	4	8.9%		meets 3 weekdays		44	12.8%	26.6%	
3005 Biomedical Engineering:	3	6.7%		meets daily		20	5.8%	31.5%	
3099 Engineering Other:	9	20.0%		<b>Day of class:</b>		100%			
Fine Arts:		100%		Monday only		21	6%	28.4%	
4001 Art and Design:	10	25.6%		Tuesday only		25	8%	23.9%	
4002 Music:	22	56.4%		Wednesday only		14	4%	27.8%	
4003 Performing Arts:	6	15.4%		Thursday only		14	4%	18.7%	
4004 Fine Arts Other:	1	2.6%		Mon & Wed		80	24%	23.4%	
Health Professions:		100%		Tues & Thur		120	37%	25.8%	
5001 Comm Sci and Disorders (CSD):	2	2.8%		Mon, Wed, Fri		44	13%	26.6%	
5002 Dental Hygiene (DH):	3	4.2%		other		9	3%	25.4%	
5003 Public Health Science (PHS):	34	47.9%		<b>Class Type:</b>		100%			
5004 Medical Laboratory Sciences (MLS):	1	1.4%		Lecture		392	88.7%	24.9%	
5005 Nursing (NURS):	21	29.6%		Lab		17	3.8%	28.2%	
5008 Hlth Prof Other:	10	14.1%		Experiential		10	2.3%	26.6%	
LAS Humanities:		100%		Activity Course		7	1.6%	low count	
6101 English:	38	43.7%		Seminar		6	1.4%	low count	
6102 History:	6	6.9%		Other		10	2.3%	low count	
6103 Modern and Classical Language:	22	25.3%		<b>Delivery Method:</b>		100%			
6104 Philosophy:	9	10.3%		HYB Hybrid		32	7.1%	23.5%	
6105 Religion:	4	4.6%		HYO Hybrid Online		2	0.4%	low count	
6106 Women Studies:	8	9.2%		IIE Internet Only		94	21.0%	20.8%	
LAS Natural Science & Math:		100%		TCI Traditional Classroom		320	71.4%	27.6%	
6201 Biology:	13	25.5%		<b>General Education:</b>		100%			
6202 Chemistry:	8	15.7%		non Gen Ed		308	71.6%	24.4%	
6203 Geology:	2	3.9%		Gen Ed Introduction		69	16.0%	25.8%	
6204 Mathematics (MSP):	28	54.9%		Gen Ed Further Study		53	12.3%	34.0%	
LAS Social Sciences:		100%		Gen Ed I & P		18	4.2%	26.0%	
6301 Anthropology:	2	2.6%		<b>Basic skills:</b>		100%			
6302 Communication:	18	23.4%		Basic Skills crs		33	7.4%	31.3%	
6303 Criminal Justice:	13	16.9%		Non Basic Skills crs		415	92.6%	25.4%	
6304 Ethnic Studies:	1	1.3%		<b>Instructor Type:</b>		100%			
6306 Political Science:	8	10.4%		Faculty		162	65.9%		
6307 Psychology:	8	10.4%		Lecturer		48	19.5%		
6309 Social Work:	6	7.8%		GTA		13	5.3%		
6310 Sociology:	21	27.3%		Unclassified		23	9.3%		

Table 2: Student Early Alert System (SEAS) End-of-Term Fall 2015 (**STUDENT LEVEL Bivariate**)

(sample: unique count 10,561 students in SEAS participating classes; source: end of term data from BIPMS SS\_SEAS)

**All Students in SEAS courses at end of term (includes undergraduate and graduate)**

total students	not at risk	at risk	% at risk	Percent at Risk by Risk Type			
				Risk type:	of all eligible SEAS stds	of those marked at risk	% removed from at risk after notification
10,516*	8,177	2,384	22.6%	attendance	8.7%	38.5%	33.1%
* 72.8% of Fall 2015 20thday students (undergraduates & graduates)				participation	7.6%	33.5%	26.2%
				assignments	11.9%	52.8%	32.8%
				exams	15.1%	67.0%	28.0%
<b>students who withdraw after at-risk notification:</b>				<b>num at-risk dimensions per student marked at risk:</b>			
num withdrew from course after notification			251 (10.5% of atrisk)	at-risk count	100%	cuml %	
of withdrawals % within 1 week of at-risk			44.2%	1	56.8%	57%	
of withdrawals % within 2 week of at-risk			58.9%	2	20.8%	78%	
				3	11.8%	89%	
				4	10.5%	100%	

**Bivariate Comparison of Undergraduates in SEAS Participating Classes**

CAUTION-- differences are impacted by course selectivity bias

Dimension:	All UG	not at risk <sup>1</sup>	at risk <sup>1</sup>	Dimension:	All UG	not at risk <sup>1</sup>	at risk <sup>1</sup>
unique head counts	9,085	6,779	2,306	<b>Academic performance:</b>			
	100%	74.6%	25.4%	cumulative hours	86.8	88.9a	80.5b
<b>Major type:</b>	100%	100%	100%	cumulative gpa	3.02	3.15a	2.62b
Bachelor degree major	81.8%	82.5%a	79.6%b	WSU gpa	2.93	3.10a	2.42b
Bachelor field major	0.7%	0.7%a	0.8%a	transfer gpa	3.23	3.28a	3.04b
Bachelor general studies	2.4%	2.1%a	3.3%b	% cumulative gpa <2.00	4.8%	2.2%a	12.5%b
Pre Major	18.2%	17.4%a	20.3%b	WSU gpa <2.00	9.8%	5.1%a	23.5%b
				% current or previous probation	8.9%	5.1%a	19.9%b
% Undecided Major	5.3%	4.5%a	7.6%b				
<b>Student class:</b>	100%	100%	100%	<b>Performance scores (means):</b>			
freshmen	12.9%	11.6%a	17.0%b	ACT( incl SAT)	22.9	23.1a	22.0b
sophomore	17.9%	17.2%a	20.1%b	INCSR <sup>2</sup>	51.0	53.7a	41.3b
junior	22.9%	22.2%a	25.1%b	APAP <sup>3</sup>	9.8	9.2a	11.5b
senior	46.2%	49.1%a	37.9%b	TOEFL	68.3	71.9a	61.3b
new student	23.0%	22.5%a	24.3%a	HS gpa	3.39	3.44a	3.21b
				HS percentile	67.7	69.8a	60.2b
<b>Demographics:</b>				remedial need	27.9%	27.0%a	30.4%b
age in years (mean)	23.6	23.6a	23.5a				
% female	52.8%	54.2%a	48.4%b				
% under-represented minority <sup>4</sup>	16.9%	15.5%a	20.7%b				
<b>Residency:</b>	100%	100%	100%				
resident	87%	88.1%a	84.3%b				
non-resident	6.2%	6.3%a	6.0%a				
international	6.7%	5.6%a	9.7%b				
% first generation	42.2%	41.5%a	44.3%b				
% on financial aid	77.2%	78.4%a	73.5%b				
% in housing	8.3%	8.6%a	7.3%a				

<sup>1</sup> Values in the same row not sharing the same subscript (a or b) are significantly different at p < .05 level.<sup>2</sup> INCSR=composite scale (0-100) of summated ACT, HS gpa & HS percentile z-score values; lower scores the greater likelihood of academic failure.<sup>3</sup> APAP probability of being on academic probation by end of term; the higher the percent the greater the likelihood of probation.<sup>4</sup> Under-represented minority includes Black non-Hispanic, Hispanic, American Indian, Alaskan Native & Hawaiian.

Table 3: Student Early Alert System (SEAS) End-of-Term Fall 2015 (STUDENT LEVEL Multi-variate)

(sample: unique count 10,561 students in SEAS participating classes; source: end of term data from BIPMS SS\_SEAS\_last)

Multivariate Analysis of Being Marked at-risk (UG only)

variables:	ALL UG in Participating SEAS class			IPEDS Based Freshmen Entry in SEAS Participating Class					
	At risk			At risk	attendance	participation	assignments	exams	
<i>Demographics:</i>				<i>Demographics:</i>					
age	n/a <sup>1</sup>			age	n/a	n/a	n/a	n/a	n/a
female (0,1)	ns <sup>2</sup>			female (0,1)	ns	ns	ns	ns	ns
under-rep minority (0,1)	more			under-rep minority (0,1)	more	ns	ns	ns	ns
first generation (0,1)	more			first generation (0,1)	ns	ns	s	ns	ns
low income (0,1)	more			low income (0,1)	more	ns	ns	ns	ns
resident	reference			resident				reference	
non-resident	ns			non-resident	n/a	n/a	n/a	n/a	n/a
international	more			international	n/a	n/a	n/a	n/a	n/a
university housing (0,1)	ns			university housing (0,1)	ns	ns	ns	ns	ns
<i>Academic status:</i>				<i>Academic status:</i>					
enrolled full-time (0,1)	less			enrolled full-time (0,1)	less	less	less	less	less
new student (0,1)	ns			new student (0,1)	ns	ns	ns	ns	less
freshmen	reference			freshmen				reference	
sophomore	ns			sophomore	ns	less	less	less	ns
junior	less			junior	less	less	less	less	ns
senior	less			senior	less	less	less	less	less
undecided major (0,1)	ns			undecided major (0,1)	ns	ns	ns	ns	ns
<i>Performance &amp; ability:</i>				<i>Performance &amp; ability:</i>					
pct of history on probation	more			pct of history on probation	more	more	more	more	more
adm application gpa	less			adm application gpa	n/a	n/a	n/a	n/a	n/a
HS gpa/percentile composite	n/a			HS gpa/percentile composite	less	less	less	less	less
ACT	n/a			ACT	ns	ns	ns	ns	less

<sup>1</sup> n/a= not applicable to population or multicollinearity risk

<sup>2</sup> ns= not significant at the .05 level

OLS Regression on SEAS Course Grade During Fall 2014 (dependent= class grade)

All Undergraduates

IPEDS Based Freshmen Entry

Predictors	unstd beta	std beta	sig.	Predictors	unstd beta	std beta	sig.
<i>Risk dimensions:</i>				<i>Risk dimensions:</i>			
attendance risk (0,1)	-0.107	-0.065	0.000	attendance risk (0,1)	-0.137	-0.084	0.000
participation risk (0,1)	-0.088	-0.050	0.010	participation risk (0,1)		not significant	
assignments risk (0,1)	-0.257	-0.174	0.000	assignments risk (0,1)	-0.275	-0.184	0.000
<i>Demographics:</i>				<i>Demographics:</i>			
age in years	n/a (student class is proxy)			age in years	n/a (student class is proxy)		
female (0,1)	not significant			female (0,1)	not significant		
under-rep minority (0,1)	not significant			under-rep minority (0,1)	0.148	0.047	0.027
first generation (0,1)	not significant			first generation (0,1)	not significant		
low income (0,1)	-0.202	-0.061	0.000	low income (0,1)	-0.187	-0.053	0.012
resident	(reference group)			resident	(reference group)		
non-resident	not significant			non-resident	0.267	0.050	0.020
international	not significant			international	not significant		
university housing (0,1)	0.321	0.062	0.000	university housing (0,1)	not significant		
<i>Academic status:</i>				<i>Academic status:</i>			
enrolled full-time (0,1)	0.251	0.080	0.000	enrolled full-time (0,1)	0.318	0.098	0.000
new student (0,1)	0.567	0.181	0.000	new student (0,1)	0.542	0.176	0.000
freshmen	(reference group)			freshmen	(reference group)		
sophomore	not significant			sophomore	0.190	0.061	0.070
junior	not significant			junior	not significant		
senior	0.395	0.145	0.000	senior	0.480	0.166	0.000
stu is col div major (0,1)	not significant			stu is col div major (0,1)	not significant		
undecided major (0,1)	not significant			undecided major (0,1)	not significant		
<i>Performance &amp; ability:</i>				<i>Performance &amp; ability:</i>			
pct of history on probation	-1.488	-0.384	0.000	pct of history on probation	-1.228	-0.322	0.000
ACT	n/a			ACT	not significant		
HS gpa/percentile composite	n/a			HS gpa/percentile composite	0.042	0.091	0.000
Rsqr	0.516		0.000	Rsqr	0.501		0.000

<sup>3</sup> APAP probability of being on academic probation by end of term; the higher the percent the greater the likelihood of probation.

<sup>4</sup> Under-represented minority includes Black non-Hispanic, Hispanic, American Indian, Alaskan Native & Hawaiian.