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Recommended Syllabus Components: What Do Higher Education Faculty Include in Their Syllabi?

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yet what actually constitutes a syllabus remains unclear. The authors assessed the contents of 1000 syllabi, sampled from the Internet, based on 26 criteria determined from a literature review of recommended syllabus components. Syllabi contents were Syllabus use in higher education instruction is ubiquitous, assessed according to four categories: professor information, course information, grading information, and policy information. In addition, each syllabus was categorized by content area domain and academic level. An analysis of the contents of the syllabi demonstrated that the most frequently included syllabus and course texts, and that the least frequently included syllabus components were course name, course number, professor name, components comprised almost entirely policies—specifically, honor code policy, disability policy, missed work policy, late work policy, and student support services. Analyses based on content area domain and academic level demonstrated little systematic formation, course information, and grading information, than variance. Overall, faculty tended to include more professor inpolicy information. These findings provide evidence for the need to include greater policy information—honor code, disability, technology, attendance, and student support policies — on syllabi to better inform students. The use of syllabi in higher education instruction is ubiquitous, and their construction represents a critical moment in instructors' curriculum/

course development thought processes and the communication process between instructors and students. Yet despite the almost universal agreement on the need for a syllabus in college courses, what actually constitutes a syllabus—content, format, and function—remains unclear. This lack of consensus may derive from the need of the syllabus to fulfill multiple tion of syllabi is limited. Thus, the question remains, What components do and to satisfy multiple constituents (faculty, students, administrators). Unfortunately, research designed to clarify the content, format, and funcpurposes (for example, organizational, administrative, communicative) faculty members include in their syllabi?

An academic syllabus can be understood as a form of communication of study and, frequently, including components such as a schedule of assignments, activities, and assessments as well as an introduction to the instructor and course material (Nilson, 2003). Presenting these responsibilities and expectations for performance in writing allows students to decide whether they have the appropriate time and resources to be successful (Parkes & Harris, 2002; Smith & Razzouk, 1993). In addition, between a course instructor and his or her students, outlining the course when course goals and objectives are included in syllabi, students are made better aware of the purpose of the course and the role the course plays in the larger domain of study, including how the course fits into the college or department curriculum (Davis, 1993).

Often the initial and most formal communication tool received by students regarding the course, a syllabus serves as a practical and intel-Newton, & Wiggins, 2001). It gives students a "common script" (Smith & Razzouk, 1993, p. 219) for the course, including how much time they are lab reports, and research (Davis, 1993). Course effectiveness also can be improved, and communication frustrations avoided, when a syllabus lectual guide to the academic term ahead (Dominowski, 2002; Eberly, expected to spend on reading assignments, problem sets, group projects, provides students with clear expectations and criteria for determining their success or failure (Diamond, 1998; Grunert, 1997).

One particular purpose of syllabus design is prevention (Boyle & Rothstein, 2003; Matejka & Kurke, 1994). That is, anticipated student questions and concerns can be formally and thoughtfully addressed from the start of the course, thus saving the instructor time spent answering these questions. Parkes, Fix, and Harris (2003) point out that students a syllabus. The more information provided about the course to students take significant notice of the quantity and quality of what is included in in advance, the fewer questions and misunderstandings are encountered later during the term. Vague expectations and unclear policies often

indeed, providing brief explanations can reduce student resistance to a with sample test questions and detailed assignment descriptions has been contribute to increased student anxiety. For example, providing students demonstrated to reduce students' text anxiety and to have a positive impact on their learning (Darley, Zanna, & Roediger, 2004; Diamond, 1998), challenging course format, process, or assignment.

Clearly, syllabi have an important role to play in teacher-student communications and expectations. Given this importance, is there any consensus regarding what components should be present in a wellconstructed syllabus?

Recommended Syllabus Components

ing, with a shift away from the more traditional view of it as a skeletal outline or general schedule of assignments and toward it as a comprehensive course guide (Eberly et al., 2001). Diamond (1998) argues that the traditional syllabus is ineffective for helping students to understand their vital role in the learning process—"to understand the expectations we have of them and our plans for the learning experience, students need more comprehensive information than the traditional syllabus provides" Perceptions of the role of the syllabus in educating students are chang-

by all, or most, higher education researchers or practitioners. However, a considerable amount of practical evidence of desired syllabus components Because these practical syllabus recommendations have not yet been colated and assessed, however, the larger picture they create is unclear. In an attempt to understand and make sense of these recommendations, we examined 15 sources addressing college teaching and syllabus construction. Our examination revealed 81 syllabus components mentioned by at There is, however, no singular set of syllabus components accepted is revealed in numerous texts and articles addressing college teaching. least one of the texts or articles. Of these 81 components, however, only 24 of them were mentioned by at least half of the sources (see Table 1).

Further examination of these 24 agreed-upon components revealed four grading information, and policy information. Table 1 identifies both these recommended components and the level of agreement among the authors main component categories: instructor information, course information, about their inclusion. Overall, the sampled authors agreed most readily on four specific syllabus components: grading policy, instructor's name, course content topics, and course due dates.

Although the recommended components listed in Table 1 are based

Table 1 Course Syllabus Components as Agreed Upon' by Text Authors'

						SA	oųįn	V							
SI	₽Ľ	EI	12	II	OL	6	8	4	9	2	Ð	ε	7	I	
															Instructor Information
X	X	X	X		X	X	X	X	X	X	X	X	Χ	X	Instructor's Vame
X	X	X	X		X		X		X	X	X	X	X	X	Instructor's Office Location
X	X	X	X		X	X	X			X		X	X		Instructor's Office Hours
X	X	X	X		X	Χ,	X		X	X		X	X	X	Instructor's Office Phone
Х	X	X	X		X	X			X	X		X	X	X	Instructor's E-mail Address

Course Due Dates		X	X	X	X	X	X	X	X	X	X	X	X		X
Course Calendar	X	X	X	X	X		X	X			X	X	X	X	X
Course Content Topics	X	X	Χ	X	X	X	X	·X			X	X	X	X	X
Course Supplemental Readings	13	x	x	x	x	x	x		x	x	x	x		x	x
Contae Textbooks		X	X		X	X			X	X	X	X	X	X	X
Course Days/Time/Duration	x	x	x	x		x				x			x	x	
Course Location	X	X	X	X						X		X	X	X	
Course Goals/Objectives		X	X	X	X		X	X	X		X	X	X	X	X
Course Description/Purpose		X	X		X		X		X		X	X	X	X	X
Course Number	X	X	X	X	X	X	X					X	X	X	
Course Name	X	X	X	X	X	X	Χ					X	X	X	
Course Information															

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Course Syllabus Components as Agreed Upon' by Text Authors^b (continued)

Note.															
Honor Code/Academic Conduct Policy		x	x	x			x			x		x		x	X
Missed Work Policy	Χ	X	X	X	X	X			X	X	X	X	Χ		X
Attendance Policy	X	X	X	X	X				X	X	X	X	X	X	
P olicy Information Late Work Policy	X	X	X	X	X	X	X		X	X		X		X	X
Assignment Descriptions	X		X		Х	Х	х	X	X	X		X			X
esmeN InsmngiseA	X	53	X		X			X		X	X	X			X
Grading Scale	X	X	X			X	X					X	X		X
Grading Information Grading Policy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	τ	7	ε	Ŧ	2	9	L	8 1047n	6 s.	OT	п	ग	13	ÐŢ.	ST

Note. *The measure of "agreed upon" was that at least 50% of the authors listed the syllabus component. *The authors contributing to this analysis included: Boyle & Rothstein (2003), Darly, Zanna, & Roediger (2004), Dominowski (2002), Fink (2003), Grunert (1997), Ko & Rossen (2001), Lyons, Kysilka, & Pawlas (1999), Lyons, McIntosh, & Kysilka, & Pawlas (1999), Lyons, McIntosh, & Kysilka, (2003), McClynn (2001), McKeachie (2002), Nilson (2003), Parkes & Harris (2002), Royse (2001), Wankat (2002), and Weimer, Parrett, & Kerns (1988).

of the literature" (p. 9). Students and faculty evaluated these syllabus to support this list. Garavalia, Hummel, Wiley, and Huitt (1999) surveyed 316 participants, 242 undergraduate students and 74 faculty isted in Table 1. Specifically, Table 2 represents the 10 most important solely on the authors' logical supposition, there is empirical evidence members, regarding their perceptions of the importance of including various components within a syllabus. Garavalia et al. created their list of syllabus components for the survey based on an unspecified "review components on a Likert scale from 1 (not very important) to 5 (very important). The syllabus components that were deemed important by faculty members and students (see Table 2) are in general agreement with those syllabus components as rated by faculty members and students. Nine of the top faculty-rated components, excluding external work assignments (for instance, field studies), and eight of the top student-rated components, excluding allowable absences and excessive absence penalty, also are included in the recommended components in Table 1.

In addition to Garavalia et al.'s (1999) examination of faculty members' and students' perceptions of syllabus components' importance, Becker and Calhoon (1999) examined the attention that students paid to various syllabus components. They surveyed 863 undergraduate students enrolled in introductory psychology classes regarding to which syllabus components they paid the most attention. The authors chose their survey syllabus components "because several authors listed them as important to include in a syllabus" (p. 7). Students responded to these syllabus components on a Likert scale from 1 (no attention at all) to 7 (a great deal of attention). Students responded positively to 25 items in the survey (see Table 3), neutrally to only one item, academic dishonesty policy, and negatively to three items: course information, drop dates, and textbook titles and authors. Of the 25 items to which students paid attention, 17 items align directly with the components listed in Table 1.

While to date data have been collected and analyzed in the literature regarding recommended course components, course components perceived as important, and course components to which students paid attention, there are few data on what syllabus components faculty members actually include within their syllabi. The purpose of this study is threefold: (a) to examine the syllabus components included by faculty members within their syllabi, (b) to determine if any differences exist in the inclusion of syllabus components across different content area domains (for instance, business, engineering, liberal arts), and (c) to determine if any differences exist in the inclusion of syllabus components across different academic levels (for instance, lower undergraduate, upper undergraduate, graduate).

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Recommended Syllabus Components

Table 3

Syllabus Components to Which Students Paid Most Attentions, b

12. Make-up Policy
11. Extra Credit Availability
10. Amount of Required Work
9. Class Participant Requirements
8. Types of Assignments
7. Number of Exams and Quizzes
6. Dates of Required Events Outside of Cla
5. Type of Exams and Quizzes
4. Grading Policy
3. Required Reading Material
2. Assignment Due Dates
1. Exam and Quiz Dates

via the Internet using a non-probability—purposive and quota—sampling This study examined 1,000 higher education course syllabi obtained

Method

Sampling

process. These 1,000 syllabi were selected purposefully so that 125 sylabi were obtained for each of eight content area domain categories selected by the authors as representative of typical colleges found across various institution types (see Table 4). In addition to the syllabi being engine, with searches taking the form of the word syllabus followed by a

syllabi were selected from lower-level undergraduate courses (freshman, sophomore), 354 were selected from upper-level undergraduate courses junior, senior), and 225 were selected from graduate-level courses (master's, doctoral). The syllabi were obtained using the GoogleTM search

purposively distributed across the eight domain categories, the syllabi were also non-purposively distributed across academic level so that 421

13. Late Assignment Policy

those components listed first and the least attention to those components listed last. Based on Becker and Calhoon (1999). Components are listed in order of student attention, that is, students paid the most attention to

25. Instructor's Office Hours

23. Instructor Information 22. Course Description

21. Holidays

16. Course Format

Aftendance Policy

24. Available Support Services

20. Course Coals and Objectives

19. Requisite Skills and Course Work 18. Days, Hours, and Location of Class 17. Where to Obtain Course Materials

15. Schedule of Topics to be Covered

Table 4	Categories and Specific Content Areas*	
	Categorie	
	Domain	

Domain C	Domain Categories and Specific Content Areas
Domain	Content Areas
Art & Architecture	Architecture, Art History, Interior Design, Landscape Architecture
Business	Accounting, Finance, Hospitality and Tourism, Management, Marketing
Engineering	Aerospace, Chemical, Civil, Electrical, Mechanical, Systems
Liberal Arts	Communication, History, Languages, Philosophy, Theatre Arts
Life Sciences	Agriculture, Biochemistry, Dairy/Poultry, Entomology, Horticulture
Natural Sciences	Fisheries, Forestry, Geography, Wildlife Science, Wood Science
Physical Sciences	Biochemistry, Biology, Chemistry, Geology, Mathematics, Physics
Social Sciences	Anthropology, Education, Political Science, Psychology, Sociology
Note. "The listed conte	Note. "The listed content areas are not exhaustive, but are provided for

clarification.

plus sign (+) followed by a specific content area domain in quotation marks, for example:

syllabus + "social sciences"

Google utilizes a non-random algorithm to search and display results This type of search and subsequent selection of syllabi is not random, as (Google, 2004).

Materials

Each syllabus selected from the Internet was evaluated based on the 24 syllabus components reported in Table 1. These syllabus components were selected based on the recommendations of the sampled authors included in Table 1 and on the general agreement of the syllabus components with the research of Garavalia et al. (1999) and Becker and Calhoon

(1999). However, we added two new syllabus components to this list of 24 components based on literature support and our interests: a disability policy and a student support services policy.

cated by only 3 of the 15 texts and articles evaluated for Table 1. This is somewhat surprising given the increasing numbers of students with requirement for higher education institutions and faculty members to It should be noted that the inclusion of a disability policy was advodisabilities enrolling in higher education institutions (see Gordon, Lewandowski, Murphy, and Dempsey, 2002; Smith, 2001) and the legal 1990). According to Lerner (2003), "one of the greatest challenges faced by college students with learning disabilities is gaining and maintaining can demonstrate acceptance and encourage students with disabilities to self-identify by providing disability policy statements on syllabi, thus accommodate students with documented disabilities (ADA, 1990; IDEA, the acceptance and cooperation of the academic faculty" (p. 314). Faculty recognizing the rights of students with disabilities to receive needed and entitled accommodations.

Yet accommodating students goes beyond students with disabilities to include all students via student support services. These support services comprise a vast array of instructional programs and resources designed all students. Syllabi that incorporate intercampus learning opportuniprogramming, and academic advising by creating a complete learning experience (Cheng, 2004; Tinto, 1998). While student support services to foster student learning and development, including reading and writwomen's centers, and library assistance programs. Indeed, Cheng (2004) stresses the vital need for faculty and administrators to collaborate in the creation of a more supportive and holistic academic community for ties promote more effective faculty-student interactions, student affairs can be key to students' academic success and retention, only 5 of the 15 ing centers, tutoring and study centers, health and counseling centers, sources evaluated for Table 1 included such services in their list of recommended syllabus components.

Ultimately, each syllabus was evaluated using a checklist of 26 syllabus components—the 24 original components and the 2 new components. We made no effort to evaluate the efficacy or quality of the syllabus components, only their presence or absence.

Procedure

The 1,000 syllabi were selected during the summer and fall of 2004 using the aforementioned GoogleTM searches. We created an online utility to al41

and to store the evaluation results in an electronic database. The online low evaluators to complete the syllabus checklist for each syllabus selected utility prevented any syllabus from being evaluated more than once.

Results

questions: (a) What syllabus components are included by faculty members within their syllabi? (b) What differences, if any, exist in the inclusion of differences, if any, exist in the inclusion of syllabus components across The following results begin the process of evaluating our three research syllabus components across different content area domains? and (c) What different academic levels?

Syllabus Components Included in Higher Education Syllabi

The frequency distribution of syllabus components included in the sampled syllabi is displayed in Table 5. The most frequently included syl-Professor Name (90.8%), and Course Texts (84.0%). The least frequently included syllabus components consisted almost entirely of policies, specifically, Supplemental Readings (34.0%), Honor Code Policy (33.8%), Disability Policy (23.0%), Missed Work Policy (20.2%), Late Work Policy abus components were Course Name (96.7%), Course Number (91.0%), (19.2%), and Student Support Services (7.2%)

We further analyzed the data using Cochran's Q to determine if there stitute independent analyses (Siegel & Castellan, 1988), inflation of Type inclusion in the syllabus components included the professor's name, office were any differences between category frequencies, followed by an analythree clusters of categories. Those categories that had high frequencies of number, description, goals/objectives, required texts, topics, calendar, in the syllabus components included course supplemental readings, late sis of standardized residuals as a post-hoc test to locate specific frequency differences. Because the analyses of standardized residuals does not conlerror was controlled through the use of the Sidák-Bonferroni correction, resulting in significance being measured at $\alpha = .001$ (z = ± 3.30). The Cochran Q was statistically significant, and the analysis of residuals revealed location, office phone, and e-mail address, as well as the course name, and grading policy. Those categories that had low frequencies of inclusion work policy, missed work policy, honor code policy, disabilities policy, and student support services (see Table 5).

Beyond the frequency of syllabus components included in course syllabi is the question of what components generally were included. Of the

*(000T =	V) idally2 noits	ed on Higher Educ	Components Includ
Kank	Standardized Residual	houonbo $_{ar{I}}$	frogoty
		Professor Informat	
ε	12,22+	806	Professor Name
8	+81.7	0₹८	Office Location
13	2.2₫	275	Office Hours
9	7.33+	[′] S₹Z	Office Phone Number
6	₊ ₹6.6	732	Professor E-mail Address

Components Included on Higher Education Syllabi (N = 1000)* (continued) Zable 5

Course Due Dates	₱₽₱᠃	ZE"I	61
Course Calendar	879	+ε8.ε	12
Course Topics	Ĩ₽Z	7.21⁴	Z
Course Supplemental Readings	940	-6∠'₹	ZI .
Course Require Texts	0₽8	10.18+	₽
Course Goals/Objectives	089	2.35⁺	10
Course Time	76₹	62.0	191
Course Location	717 5	1.73	20
Course Description	949	₽"5"	11
Course Number	016	12.28+	7
Course Name	<i>4</i> 96	+86.E1	I
	Course Informatio	uc	
Category	Frequency	Standardized Residual	Kank

Jole			
Student Support Services	7.7	12.82-	56
Disability Policy	230	-80.8	23
Honor Code Policy	338	-58.₽	22
Missed Work Policy	202	10.93	7₹
Late Work Policy	192	-22.6	72
Attendance Policy	∠ S₽	1.28	18
	Policy Inform	noits	
Assignment Descriptions	65₽	1.22	Δī
səmsN tnəmngissA	289	01.1	₽I
Grading Scale	₽09	11.0	IP
Grading Policy	792	7.84 ⁺	S
	Grading Inform	noiten	

Note. 2 Cochran Q (25,1000) = 6598.76; p<.001. 3 Cochran Q (25,1000) = 6598.76; p<.001 = observed frequency significantly less than expected frequency. 7 P < .001 = observed frequency significantly less than expected frequency.

26 course syllabus components we examined, only 4 were included in at least 80% of the sampled syllabi, 15 components were included in at least 50% of the sampled syllabi, and 11 components were included in less than 50% of the sampled syllabi. In addition, when the syllabus component frequencies are examined by theme, a clear trend emerges. Faculty tended to include more Professor Information (74.0%), Course Information (65.1%), and Grading Information (56.6%), than Policy Information (24.8%).

Syllabus Components and Content Area Domains

While the course component frequencies provide an overview of the syllabus components included, we also performed two more detailed analyses. The first analysis examined the inclusion of course components across content area domains by grouping the course components into categories, specifically, Professor Information, Course Information, Grading Information, Policy Information, and All Information, which includes all course components regardless of category. The second analysis examined the inclusion of course components without any groups, examining each course component individually.

Examining Syllabus Components by Category

For each syllabus examined, a score was computed for each of the four syllabus component categories based on the number of syllabus components included with each category. These data were analyzed using a 3 (Academic Level) \times 8 (Content Area Domain) \times 5 (Syllabus Component Category) multiple analysis of variance (MANOVA), with syllabus component inclusion as the dependent variable (see Table 6). All follow-up comparisons were analyzed using the Tukey HSD post hoc with α = .05. Only the Content Area Domain \times Syllabus Component Category aspects of this analysis are discussed here; the Academic Level \times Syllabus Component Category aspect of this analysis is addressed in the next section.

The MANOVA revealed four significant main effects, for Course Information (F[7,976] = 3.31; p < .002; MSE = 13.94), Grading Information (F[7,976] = 8.17; p < .000; MSE = 11.34), Policy Information (F[7,976] = 4.19; p < .000; MSE = 8.33), and All Information (F[7,976] = 3.70; p < .001; MSE = 66.21); and one non-significant main effect for Professor Information (F[7,976] = .56; p > .78; MSE = 1.56). Post hoc analyses demonstrated that the main effect for Course Information was the result of engineering course syllabi including fewer of the 11 course syllabus components than social science course syllabi. The main effect for Grading Information was the

Table 6 Means (and Standard Deviations) for Syllabus Component Categories by Content Area Domain of Syllabus

Content Area Domain

Note.									
³noitsmtoinI IIA	14.46 (4.49)	15.23	13.18 (4.02)	14.22 (4.29)	28.41 (3.44)	14.41 (44.41)	28.₽1 (4.56)	15.62 (4.88)	(87°F) 14°25,
Policy Information ^a	15.1 (75.1)	29.1 (EE.1)	₽6. (12.1)	1.19 (1.40)	1°20)	1.38 (24.1)	99.I 64.I)	£8.I (33.I)	*E#.I (E#.I)
Grading Information°	2.36 (1.21)	17.2 (1.13)	₽9°I (40°I)	82.2 (1.18)	2,30 (1,22)	82.2 (1.13)	2.09 (71.1)	2.42 (1.29)	*2.26* (1.21)
Course Information ^b	7. <u>44</u> (2.26)	66.9 (28.1)	92'9 (£8:1)	7.07 81.2)	70.7 (88.1)	86.98 (21.5)	7.37 (2.09)	7.7 <u>4</u> (21.2)	*81.7 (2.06)
Professor Information ^a	₽E.E (₽7.I)	3.91 (73.1)	48.€ (88.1)	79.£ (£9.1)	3.75 (1.54)	(Z9.I)	07.£ (33.1)	3.62 (08.1)	97.E (39.I)
Syllabus Component Categories	AA	Sa	NЭ	¥Ί	SI	SN	Sd	SS	Total

Note. AA = Art & Architecture; BS = Business; EN = Engineering; LA = Liberal Arts; LS = Life Sciences; NS = Natural Sciences; PS = Physical Sciences; SS = Social Sciences.
Max. value is 5; **Max. value is 11; *CMax. value is 4; ***Max. value is 5; ***Max. value

specifically, liberal arts syllabi included fewer of the six Policy components than social science syllabi, and engineering syllabi included fewer of the science syllabi. Finally, examining all 26 syllabus components at once result of engineering course syllabi including fewer of the four Grading components than the syllabi of all other content area domains. The main effect for Policy Information was the result of two content area domains; Policy components than life science, business, physical science, and social revealed that engineering syllabi included fewer syllabus components han business, physical science, and social science syllabi.

Examining Syllabus Components by Individual Component

labus component inclusion and content area domain, we also performed a series of chi-square analyses to determine the relationship between yielding a total of 26 analyses. In order to establish a familywise $\alpha = .05$, the Sidák-Bonferroni correction was used, yielding a per comparison lpha=an analysis of standardized residuals was performed for each significant While the MANOVA provides a broad overview of categorized sylindividual syllabus component inclusion and content area domain (see Table 7). One chi-square analysis was performed per syllabus component, .002 (Keppel & Wickens, 2004). In addition, to gain a better sense of each content area domains' contribution to each significant chi-square analysis, again, using the Sidák-Bonferroni correction to control for Type I error chi-square analysis, with significance measured at $\alpha = .007$ ($z = \pm 2.70$), (Hays, 1994; Siegel & Castellan, 1988).

The chi-square series revealed that 17 of the 26 syllabus components included significant variability in the inclusion of syllabus components across content area domains (see Table 7). Of specific interest, however, cant, revealing remarkable overall consistency of syllabus component science course syllabi. Engineering syllabi included less frequently than is that only 22 of the 208 standardized residual analyses were signifiother content area domains the syllabus components of Course Calendar, Course Due Dates, Grading Scale, Assignment Names, Assignment Descriptions, Attendance Policy, and Missed Work Policy. Social sciences syllabi included more frequently than other content area domains the syllabus components of Course Description, Grading Scale, Late Work inclusion. Two exceptions to this consistency are engineering and social Policy, and Missed Work Policy.

Professor E-mail Address	9 .16	64	102	100	68	98	£ 6	Z 8	66	₽ 2 .61
TedmuM enody esiftC	1.69	*2Z	103	7 6	76	103	68	9 6	96	**95.52
smoH soffic	6.17	IJ	<u>LL</u>	94	72	19	EZ	94	04	62.2
Office Location	92.5	08	06	101	68	₹ 0₹	66	6 6	1 ⁄8	20.54
Professor Name	113.5	113	ZII	112	ΔII	112	113	112	60T	86.₽
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stnsnoqmoD sudslike	$E(\mathfrak{t})_p$	AA	BR	EN	VΊ	SI	SN	Sd	SS	χ_{z}
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Орзегуеd Free	səjəuənl	IyS to	snqel	odwo:	N einer	nithii/	Content	i Area l	ismoO	su

Table 7

Observed Frequencies of Syllabus Components Within Content Area Domains (continued) Table 7

Course Due Dates	8.93	69	7.7	*9£	99	Zε	92	8₽	<i>L</i> 9	**70.6	
Course Calendar	2.87	64	₹Z	2 I*	76	64	Z 8	84	88	** <u>S</u> \$.85	
Course Topics	9.26	28	06	96	102	96	66	18	96	91.71	
Course Supplement Readings	42.5	_* 99	67	16	∠ŧ	32	Z Z	8₽	29	**9Z'0S	
Course Require Texts	105.0	102	110	901	₽II	96	₹ 01	86	801	15.83	
Course Goals/Objectives	0.28	88	£6	18	•29	*₽0I	₹Z	44	86	**92. <u>AA</u>	
Course Time	5.13	7.7	9₹	69	9₹	99	09	ZZ	49	**67.0£	
Course Location	5.33	1S	68	99	98	92	<u>9</u> 2	₽ ∠	99	39.42**	
Course Description	9 ₩2	86	64	04	76	_* ∠9	69	96	*90I	**96.88	
Course Number	8.611	Z 01	611	911	102	811	ħΙΙ	121	oii	**66.62	
Course Name	120.9	611	121	15∉	120	155	911	124	121	12.25	
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shilabus Components	$E(\mathfrak{t})_p$	AA	BR	EM	VΊ	SI	SN	Sd	SS	χ_{z}	
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esignment Names	I Z 9	23	₹8	*IE	94	92	79	72	₹Z	28.07**
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For all χ^2 calculations, N=1000 and df=7; for all individual cells, n=125. For all χ^2 calculations, N=1000 and df=7; for all individual cells, n=125. As A at A Architecture. BS = Business. EN = Engineering. LA = Liberal Arts. LS = Life Sciences. Natural Sciences. PS = Physical Sciences. SS = Social Sciences.

Natural Sciences. PS = Physical Sciences. BS = Social Sciences.

Particularly A = Life Sciences. A = Life Sc

Syllabus Components and Academic Level

As mentioned previously, we performed a 3 (Academic Level) x 8 collow-up comparisons analyzed using the Tukey HSD post hoc with α = .05. Only the Academic Level x Syllabus Component Category aspects (Content Area Domain) x 5 (Syllabus Component Category) MANOVA, with syllabus component inclusion as the dependent variable, with all of this analysis are discussed here (see Table 8). The MANOVA revealed three significant main effects, for Professor Information (F[2,1000] = 6.20)p < .002; MSE = 17.05), Course Information (F[2,976] = 3.25; p < .039; MSE = 13.71), and All Information (F[2,976] = 4.10; p < .017; MSE = 73.48); and p > .53; MSE = .86) and Policy Information (F[2,976] = .04; p > .95; MSE= .09). Post hoc analyses demonstrated that the main effect for Professor Information was the result of lower-undergraduate syllabi including while the main effect for Course Information was the result of lowerundergraduate syllabi including fewer Course syllabus components than two non-significant main effects, for Grading Information (F[2,976] = .62; fewer Professor syllabus components than upper-undergraduate syllabi, graduate syllabi

While the MANOVA provides a broad overview of syllabus component category inclusion, we also performed a series of chi-square analyses to determine the relationship between individual syllabus component inclusion and academic course level (see Table 9). One chi-square analysis of standardized residuals for those chi-squares that were significant. The Sidák-Bonferroni correction again was used with both the chi-square analyses and the standardized residual analyses, resulting in alpha levels of .002 and .01, respectively. The chi-square series revealed that only 2 of the 26 syllabus components, Professor Name and Course Required Texts, included significant variability in the inclusion of syllabus components across academic levels. The subsequent standardized residual analyses revealed that lower undergraduate syllabi included Professor Name less often than expected and that graduate syllabi included Course Required Texts less often than expected.

Discussion

This investigation set out to examine the syllabus components that are included on higher education syllabi and whether or not this inclusion varies by content area domain or academic course level. The overall analysis of the course requirements included on syllabi revealed three

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(82.4) (15.4) (60°₽) (4.26) .∠S.£I £6.4I 98.₽1 14.13 anoitsmioini IIA (1.50) (E1.1) (££.1) (92.1)£4.1 **97'I** <u>1,45</u> 1.42 Policy Information^a (12.1)(92.1)(12.1)(ZI,I)25.2 92.2 82.2 12.2 Grading Information (90.2)(2.13)(2.01)(90.2)**₽**7.7 *81.7 86.7 **Z0.7** Course Information^b (99.1)(05.1)(1.52)(£8.1) *07.E 87.E 3.92 81.E Professor Information Undergraduate (n = 354) Undergraduate ($I \subseteq A \subseteq I$) (0001 = u)(977 = u)Categories Component Total Graduate Upper LOWer Syllabus Academic Level

Table 8
Means (and Standard Deviations) for Syllabus Component Categories by Academic Level of Syllabus

. Max. value is 5; ^bMax. value is 11; ^aMax. value is 4; 4 Max value is 6; 5 Max. value is 26.

		cademic Level	V	
χ _z χ	Graduate $(n = 225)$	Upper U ndergraduate $(n = 354)$	Lower Undergraduate (n = 421)	Syllabus Components
		noitamrofal ross:	ofor <u>a</u>	
20.23**	213 (20₫)*	*(126) 888	*(285) 295	Professor Name
11.51**	*(99I) I7I	*(262) 082	*(11E) 68Z	Office Location
**I7.4	120 (129)*	*(£02) \$12	₹39 (242)	Office Hours
11.32**	*(761) 6 71	775 (263)*	.291 (313)*	Office Phone Number
**69'6		*(25) 272	*(805) 782	Professor E-mail Address

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Course Due Dates	*(191) 191	*(09I) I9I	102 (102)	**10 ⁻	
Course Calendar	.497) ∠97	222 (222)*	*(I4I) 44I	**89.I	
Course Topics	305 (315)*	- 792) - 792)*	*(166)*	2.19**	
Course Supplemental Readings	124 (143)*	127 (120)*	∗ (9∠) 68	** 22 .7	
Course Required Texts	3 92 (323) *	302 (262)	*(68I) 07I	12' 44 **	
Course Goals/Objectives	*(982) I <i>7</i> 2	\$\dagge{\pi} (\text{54})_*	168 (153)*	** P I.7	
Course Time	195 (207)*	*(<u>\$</u> 7] \7]	120 (110)*	3.02**	
Course Location	*(881) 8\T	120 (12 9)*	114 (100)*	**26.4	
Course Description	*(<u>≯8</u> 2) 162	. ₹(533)*	121 (125)*	**£8.	
Course Number	*(686) 886	317 (322)*	∑ 02 (ऽ0₹)*	J'60**	
Course Name	*(70₽) 70₽	*(245) 545	*(212) 712	**80.	
		noitamrołn! seruo?			

Table 9 Observed Frequencies (and Expected Frequencies) Of Syllabus Components Within Academic Levels*(conti

			cademic Level	A	
	χ	Graduate $(n = 225)$	Upper Undergraduate 354)	Lower Undergraduate $(n = 421)$	Syllabus Components
	56		noitamrolnI gnii	פגשו	
4:	27.7	.(I∠I) 1 9I	*(69 2) 672	*(0 <u>2</u> E) 91E	Grading Policy
¥	₽.70*	*(£11) 86	*(871) 981	∑ 12 (515)₊	Grading Scale
**	FE-II	143 (150)*	*(061) 081	\$1 ₹ (\$5\$)*	esmsN tramagiseA
**(79.6	123 (103)*	126 (195)*	,(E6I) <u>4</u> 2I	Assignment Descriptions

				.S = $b_{\lambda}^{2} X$ lie no \overline{A} $0.0. > d^{**} : 10. > d^{*}$
**80.	*(9I) ZI	52 (52) _*	*(0£) 0£	Student Support Services
***************************************	*(I3) 03	*(I8) \(\text{78} \)	*(96) £6	Disability Policy
**28.₽	*(94) 8 9	.4(611) <u>9</u> E1	132 (145)*	Honor Code Policy
**8 9. £	*(0£) 6£	*(\(\frac{1}{4}\)) &	23 (29)*	Missed Work Policy
**69.8	₽8 (₹3) _*	£2 (89)*	*(08) 7 7	Late Work Policy
** <u>\$</u> 0.4	*(201) 96	123 (191)*	* (192)*	Attendance Policy
		Policy Information		
	**89.£ **58. <u>4</u>	**89.E *(65) 85 **89.E *(05) 95 **69.8 *(15) 05	**\$0.5 *(101) 80 *(101) 621 **\$0.5 *(13) *(12) 06 *(13) 621 **\$0.5 *(13) 60 *(13) 621 **\$0.5 *(13) 60 *(13) 621	**69.8 *(64) 86 *(89) 76 *(08) 77 *(08) 77 *(08) 78 *(08)

who they are (name) and how they can be reached (office location, phone main levels of inclusion (see Table 10). In general, professors were much more likely to include general professor, course, and grading information than policy information. Specifically, professors included on their syllabi It is interesting to note that the components most included on faculty syllabi match up moderately well with faculty ratings of the importance of various syllabus components, but very poorly with student ratings of of syllabus components and ratings of importance both stress descriptive attributes of the course, that is, descriptions of who is the professor, what is the course content, and what is the grading policy. Students, however, focus more on the production attributes of the course, that is, what are the number, and e-mail address), course identifiers (course name, number, and description), what the course entails (course goals, required texts, various components' importance (see Table 2). Faculty members' inclusion assignments (tests, quizzes, readings), when are the assignments due, and topics, and calendar), and how the course will be graded (grading policy). what is the attendance policy (see Tables 2 and 3),

Student Support Services

Course Supplemental Readings

Disability Policy

Honor Code Policy

Missed Work Policy

Late Work Policy

Least Frequently

Newton, and Wiggins (2001), who examined 145 syllabi from a mid-sized the inclusion of Professor Name, Course Number, Course Required Professor Office Location (74.0% to 91.0%), Professor Office Hours (57% to of inclusion for Professor E-mail Address (73.2% to 24.8%) and Honor Code Policy (33.8% to 16.6%). These differences may call into question the variability of syllabus component inclusion based on differences between institutional cultures (for instance, research institutions versus This research also varies somewhat from the data attained by Eberly, comprehensive university. Our data concur with Eberly et al.'s data for Readings, Grading Policy, and Course Time. However, we found a much lower frequency of inclusion for Professor Office Phone (74.5% to 91.0%), 88.8%), and Course Topics (74.1% to 89.0%), and a much higher frequency comprehensive institutions)

In addition to what is included on professors' syllabi, it is interesting to note what is not: Professors generally do not include course policy information. For example, the course Attendance Policy, which students both rate as important (see Garavalia et al., 1999) and pay significant attention to (see Becker and Calhoon, 1999) was included on less than half of the syllabi evaluated. The next most frequently included policy, included on one third of the syllabi, was the Honor Code Policy. Finally, only approximately one fourth of the syllabi included a Late Work Policy, a Missed Work Policy, and a Disability Policy, and only 1 in 10 syllabi made reference to Student Support Services,

The analyses of the effects of content area domain and academic level

Syllabus Components Included in Faculty Syllabi Table 10

Aftendance Policy Assignment Descriptions Assignment Names Grading Scale Course Due Dates Course Time Course Location Professor Office Hours Somewhat Frequently

Course Topics Course Required Texts Course Goals/Objectives

Course Description Course Number Course Name Professor E-mail Address Professor Office Phone Professor Office Location Professor Name

Most Frequently

Grading Policy Course Calendar

While there were differences in the frequency of inclusion of various components across the different content area domains, the only patterns of interest revealed by the data are that engineering course syllabi tended to include less and social sciences syllabi tended to include more of the syllabus components evaluated than did the remainder of the content area domains. In addition, the differences in syllabus component inclusion graduate syllabi including the Professor Name less often than expected on syllabus component inclusion are remarkable in their consistency. across academic level were almost nonexistent, with lower-level underand graduate course syllabi including Course Required Texts less often than expected.

ity of writing and completeness of information? In addition, we did not While this study identifies what syllabus components faculty generally include and provides evidence that these included components vary little across domain and academic level, questions regarding syllabus construction remain. Specifically, we examined only for the presence or absence of syllabus components, not for the content or quality of the components. Are there differences in the quality of syllabus components, such as clarattempt to differentiate syllabi components across institutional type. Are there also differences in the inclusion of syllabus components across institutions' Carnegie Classifications? Finally, this study began with 26 these components. This relation could be reversed, however, and syllabi could be evaluated simply for their components without a pre-existing syllabus components and determined whether or not syllabi contained list to determine what faculty include on their syllabi.

however, indicates that these syllabi tend to focus on what faculty value ommended components of college course syllabi and in identifying and robust syllabi (Eberly et al., 2001; Garavalia et al., 1999), there is little Ultimately, the extant literature is fairly consistent in providing recthose components that are important to faculty and students. This study, rather than on what students value, and that syllabi, in general, lack inevidence that this call is being heeded. Ultimately, to fulfill the needs of the different syllabus constituents—faculty, students, and administrators—it will be necessary for faculty to include more specific material regarding grading information and policy information in addition to the already formation that students consider important. Indeed, while there is a call for the development of more comprehensive, inclusive, student-centered, well reported professor and course information.

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