Academic Perspectives on the Impact of Custom Publishing On Curriculum Construction

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ACADEMIC PERSPECTIVES ON THE IMPACT OF CUSTOM PUBLISHING ON CURRICULUM CONSTRUCTION

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Abstract:

Educators in the higher education marketplace recommend texts and digital resource suites for subjects they have designed. Within many higher education institutions this task has become complex. As the subjects are delivered to many cohorts of students dispersed sometimes across the globe, teaching teams rather than individuals conduct the classes. The external marketplace also demands upgrades to discipline and generic knowledge on a continuous basis, particularly in the Information Systems (IS) domain. It is therefore often hard to find traditional texts that reflect the chronological order of a proposed schedule for delivery of theory and concepts in a subject. Technology has enabled publishers to respond to these difficulties with custom publishing. Not only are linear solutions tailored to specific teaching and learning needs but tight alignment between learning objectives, activities and assessments are easier to construct for the academics. Technology has enabled publishers to open up their vast and rich library of content to provide fast construction of texts that are cheaper. The case discussed in this research-in-progress paper describes the impact of custom publishing on curriculum development for two subjects. The text in question, is ‘Working Communications’ a Business textbook designed for the Information Technology (IT) and end-user market. This paper describes the process used to align digital resources and the curriculum.

Keywords: custom publishing, digital communication, working communication, constructive alignment

I. INTRODUCTION

The globalisation of work and rapid rate of technology innovation that supports communication across vast distances presents opportunities and problems for academic curriculum resource development. To enable fast learning and teaching resource development publishers have invested in Content Management Systems and technologies that provide academics with quick access to a vast array of digitised textbooks and associated resources. Publisher’s align subject titles and discipline codes with content and direct academics to peruse publications that provide appropriate resources. Custom publishing allows academics to choose materials from a number of texts rather than a single publication.

Academics design subjects that cater to tertiary students from diverse cultural backgrounds destined for a range of professional graduate roles. The purpose of education is not solely academic or vocational - it should address personal development [Marginson, 1994]. Students must learn how to continually grow and develop in response to changed circumstances to apply professional discipline based knowledge in the work-place [Jaques, 1976].

However, despite the range of student expectations and graduate professional outcomes all students enrolled in a subject are expected to achieve similar learning outcomes. Inherent diversity in student needs adds to the complexity of curriculum design. As higher education has globalised students can also be using the same resources in a range of learning and teaching...
spaces, varied resource delivery modes and within differing cultural environments. How do we provide appropriate resources for students with diverse learning needs and styles?

Seeking to address the challenges above, the case discussed in this research-in-progress paper describes the potential benefits and pitfalls of custom publishing. This paper describes a customization process has been taken a step further and incorporates resources for two subjects into one text. The text in question is ‘Working Communications’ a business textbook designed for the Information Technology (IT) and end-user market. Technology supported delivery components drove the selection of the chapters in three traditional texts chosen to augment the discipline and generic skill acquisition in two subjects. Pearson Education Australia, a major educational publisher, provided the resources for Industry Project and its pre-requisite Business Communications. The curriculum area is important to the education of work-ready students, equipped to obtain jobs in the business professions. The text, now in its 1st edition, is currently prescribed for first year undergraduate business Information Systems (IS) student cohorts in Australia, Hong Kong and Vietnam.

Technology provided part of the solution. The curriculum resources for the two newly developed subjects were needed within a short time-frame. Custom publishing enabled academics to quickly identify desirable learning and teaching resources from a three publications. The construction of the customised text then combined the text elements with online deliverables. PowerPoint lectures, tutorial and workshop activities and online quizzes were part of the package. The technology and the publishers enabled fast cheap creation of course resources that directly aligned the subject learning and assessment activity scheduled with a custom publication. It would seem that academic curriculum development process was simple, efficient and save institutional dollars. This paper describes the process used to choose digital resources and the components for the text. How this influences the curriculum development process and subject delivery will be discussed.

II. COMMUNICATION SKILLS AS A CURRICULUM COMPONENT

In November 2007, the Seoul Accord was agreed by representatives from Australia, Britain, Canada, Japan, Korea and the US (ABET). The Seoul Accord established a draft set of graduate attributes expected of students entering the ICT profession. Communication is one of the specified graduate attributes for computing professionals. “A graduate must be able to communicate effectively with the computing community and with society at large about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations and give and understand clear instructions [Seoul Accord, 2007]”. The Australian Computer Society (ACS) also requires Communication topics, such as, oral and written presentations, technical report writing, writing user documentation and the development of effective interpersonal skills.

The Department of Education, Employment and Workplace Relations [DEST] published a report in 2002 in which it identified generic employability skills including: communication; teamwork; problem-solving; initiative/enterprise; planning and organisation; self-management; learning; and technology [DEST 2002]. Generic skills are needed if graduates are to apply their knowledge across a range of industry domains. These graduate attributes assist the individual to transfer knowledge and skills from the educational domain to the work practice. In order to respond to the expressed industry need for graduates with a strong generic skill base the content of educational products and associated structures have changed.

Changes in policies of the University, government and professional bodies demand that subject and course design are role or outcome driven and include communication skills as a graduate attribute. This has had an immediate effect on both the academics designing subjects and the publishers responding to their needs with customized resources. Communication skills are a crucial component of University graduate attributes and subject capabilities as they are integral to the application of professional skills in the workplace. In some courses, like the case
The study described in this paper subjects are developed to focus attention on the development of communication skills for work. In other courses across the University components of the communications discipline area are included to improve students' capacity for industry practice in their profession. Custom publishing as a business process is designed to support either method of teaching communication skills and knowledge. The latter curriculum need where an IS academic may just need to teach and evidence a student's capacity to communicate using a business report within a professional context is supported by the custom publishing process.

However, as communication skills are acquired through completing a variety of tasks in a range of contexts the academic may need to contextualise the resources adopted during the custom publishing process. For example, there is an assumption that learning about digital communication, presentations and resume writing in a class will enable students to produce professional documents, interview well and win jobs in a workplace setting. However, research evidence suggests knowledge gained in the classroom does not become usable at work without further learning in an appropriate context [Eraut 2002]. Eraut adds that acquired knowledge only has meaning once used; and its meaning is strongly influenced by previous contexts of use. The contextual nature of employability skills [particularly within practical judgement] moves focus from skills acquisition to professional development. The power of employers in the graduate labour market, coupled with their growing role in education policy, explains the rise of generic skills in policy and educational practice [Marginson, 1994, p.9].

The need for a fast process to support academics as they create and deliver curriculum across the globe to professionally diverse cohorts is obvious. How they integrate components such as communication into a traditional IS subject without interfering with the natural logic of the narrative is more difficult to describe.

### III. RESEARCH METHOD

The results reported herein describe academic perspectives of custom publishing. The academic perspectives are drawn from a case study of the development of the “Working Communications” custom text by one of the authors, with the development activities described drawing upon the constructional alignment literature. The academic perspectives drawn from this case study are supplemented by consideration of a qualitative survey of a number of academics with custom publishing experience.

#### Academic Perspectives – The Case Study Method

The research which has informed the academic perspectives reported follows a case study method, specifically the development of the “Working Communications” text by one of the authors. Yin [2002] defines a case study as an empirical inquiry that investigates a contemporary phenomenon within its real-life context, especially when the boundaries between phenomenon and context are not clearly evident. Case study methodology is particularly well-suited to the field of IT, where the focus is on organizational rather than technical issues [Benbasat et al, 1987]. The form and content of case studies vary greatly depending on the audience and context. Yin [2002] proposes the use of multiple sources of evidence as the distinguishing feature of case studies; whereas, McBurney [2001] maintains that it is the individuality of the case or situation that characterize case studies. Case studies may include information gathered from a single source or from a variety of sources including naturalistic observations, archival records and interviews with the case subject and with those who regularly interact with them.

The case study is interpreted in this paper using ideas drawn from the literature that recognizes the need for pedagogy to be underpinned by constructional alignment [Biggs, 2003]. It should be noted, however, that evidence to support definitively that the “Working Communications” suite of resources enable students to construct meaning from what they learnt is not available from this research to date. Students’ ability to utilize the resumes and cover letters developed, and the generic skills acquired, to obtain professional employment has not yet
been tested. However the process used by the academics to align the planned learning activities with the learning outcomes followed the processes requisite to establish constructional alignment.

**Academic Perspectives – Qualitative Survey**

The insights drawn from the case study are supplemented by consideration of a qualitative survey, conducted by Pearson Education publishers, of academics currently using customized texts in a range of discipline areas in Australia and the US. The respondents were academics who use Pearson Education customized texts from US Department of Education, Florida A&M University, San Francisco State University [Management], Rio Salado College, University of Maryland University College, University of South Carolina-Columbia and San Antonio College [Speckler, 2008]. In Australia 9 academics using custom texts were surveyed by Pearson Education Australia. The range of disciplines using customized texts included Science Concepts and Global Systems, Professional Writing, Business, Management and Teacher Education. In this survey the academics responding were encouraged to focus on what takes place in practice. Why did they choose a customized text? What difference did the customized text make to the students? Was the use of the customized text successful?

The next section presents the findings which describe the academic perspectives of building “Working Communications” in particular, and Custom Publishing in general, respectively.

**IV. “WORKING COMMUNICATIONS” – SOME ACADEMIC PERSPECTIVES**

Educators in the higher education marketplace recommend texts and digital resource suites for subjects they have designed. Within many higher education institutions this task has become complex, as the subjects are delivered to many cohorts of students dispersed sometimes across the globe, by teaching teams rather than individuals. It is therefore hard to find traditional texts that reflect the chronological order of a proposed schedule for delivery of theory and concepts in a subject. Technology, however, has enabled publishers to respond to these difficulties with custom publishing. Not only are linear solutions tailored to specific teaching and learning needs but tight alignment between learning objectives, activities and assessments are easier to construct for the academics. Technology has enabled publishers to open their vast and rich library of content to provide fast construction of texts, which are often cheaper.

To enable people to apply the knowledge gained in their university education in the business environment they require both general intellectual abilities and knowledge of discipline specific content areas. In the present case study, a custom text was designed to address the needs of two subjects. The aim of the suite of two subjects was to equip students with specialist knowledge, an ability to communicate effectively using technology to support global interaction and general business knowledge reflected in the tools required in order to obtain a professional graduate job.

As global workplaces in the 21st century require employees who can communicate effectively in a range of challenging circumstances the subjects provided a skill base and practice in context, with increasing depth [Bloom, 1956]. This practical course offers students critical knowledge about the complexities of modern communication in organizations. Students have the opportunity to develop and practice their verbal, non verbal, written and digital communication techniques in a range of simulated workplace situations, as well as through liaison with organizations. Each activity undertaken may not be intrinsically beneficial, however, its potential to reinforce professional learning acquired in traditional university environments whilst ensuring generic skill development is irreplaceable. These skills will be particularly relevant for students as they transition to the world of work and advance in their careers.
Competition in the graduate employment market has reinforced the importance of developing students graduate employability skills [Orrell, 2004]. Despite the plethora of available resources designed to enable teaching and learning in the communication a paucity of resources was found to support digital communication. This is fascinating as it the technologies used by the publishers to store, organize, communicate and deliver text resources to keep abreast of their marketplace are the same as those that now need to be taught. Topic definitions in many business communications texts include resume writing but the instructional materials often do not include searching for the job online, researching the prospective organization on the Web, emailing human resources or acquiring the position description and perhaps delivering part of the resume as a video on YouTube.

The Academic Process

Several studies support the concept of aligning assessment with learning [Ramsden, 1992; Biggs, 2003, Henderson and McWilliams, 2008]. This constructive approach to learning fits well with the concept of assessment for learning [Ramsden, 1992]. In this vein, a portfolio model for student assessment was adopted, supporting learning in a business program in which the student produces a portfolio of learning, based on an evidence-based approach in which the criteria for assessment are jointly developed and linked to learning outcomes. The curriculum was designed to align learning activities and assessment tasks with learning outcomes. This process is absolutely crucial to effective delivery when the resources are drawn from a number of publications which could otherwise lead to serious fragmentation of the learning narrative. The design of the subject curriculum must include each topic, the associated method of delivery and assessment. The additional task is the encasing professional context narrative. For this paper only one topic from the custom text is described, as a means of illustrating the development approach employed, as depicted in Figure 1.

Learning activities will be predominantly experiential in nature with opportunities to apply and practice effective communication skills and techniques in a range of different business contexts. This was enabled through the range of choices available from XXXXXXX CourseConnect online Courseware. Topics were designed around the learning objectives for each of the courses. Activities were then chosen to allow students to add samples and templates to their e-portfolio. The initial workshop activities were based on a range of small cases. In the second subject, Industry Project, the Study Hall activities were used as the case was more complex and required an understanding of context as well as the application of skills.
The solution was to use CourseConnect to provide the on-line components complete with embedded lectures, assessment, quizzes and testing. In Business Communications, the first subject students completed, the online activities to construct an e-portfolio containing a job application cover letter and resume. The students completing the course in Vietnam were studying Management or IS. In the second subject Industry Project the students completed the same task for the case included in the Study Hall. Finally, in the Industry Project, the student constructed a cover letter and resume to apply for a professional graduate position. Students were also given the opportunity to reflect on their own advancement and skills development. The learning activities were case-based with a mix of individual work and team work. Activities included workshops, practical exercises, simulations and field work.

The first level of customisation occurred when the components of the text, activities and online quizzes were identified for inclusion. During the creation of the assessment tasks required for constructional alignment to close-the loop between the objectives and evidenced outcomes the professional case context was the focus. Whilst the academic saves time by identifying ready-made skill and knowledge content during the custom publishing process this time is necessary for the quality finish for the subject curriculum.

The customised product produced to support these two subjects combined the components of two original texts, supplemented by material sourced from a third text. Customisation over two subjects provided the opportunity for students to reflect on previous learning and refer back to work completed both in the Working Communications text and in their individual e-portfolios. The activities and assessment tasks were integrated to provide a more thorough coverage of important concepts and increased depth of learning without repeating concepts, theories and skills unnecessarily.

As technology allows more incremental customization it is predicted that the exponential growth of demand will continue as will the re-focus of academic time. Technology allows academics to draw material from publisher’s comprehensive database of copyright resources.
addition the academic can choose to provide resources to students in a traditional text based form or as an e-book. The e-book allows for just-in-time and customized delivery to flexible, full color screens (via notebooks, netbooks, iPhones, iPads, laptops and desktop computers), and has the potential to provide audio and video components, the ability for handwriting, as well as margins for note-taking and text highlighting [Dennis et al, 2008].

Previous research explored initial user perceptions and the use of Amazon’s Kindle e-book reader [Egan, 2009]. The cost of an e-book is approximately 55% of the price of a traditional text. Publishers provide a selection of titles via a joint web-based delivery (‘Vital Source’) and the sales of e-books are rising rapidly. “The acquisition and exchange of data and information is designed to be as simple and efficient as possible, prompting the user for decisions only when necessary, and exchanging only information that is determined to be relevant to the user” [Huang et al, 2005]. Academic use of the highlighting and annotation features of the e-book application may improve uptake and use of available resources outside the classroom [Richardson et al, 2007]. Even more recently we have seen an increase in interest in the customization of media to accompany the custom textbook or to stand independently of a textbook. We’ve also seen growth in requests for e-book versions of custom content. Custom publishing allows the publisher to provide tailored solutions that really speak to the teaching and learning needs of the individual academic and student.

V. THE ACADEMIC PERSPECTIVE

A major advantage of a customized solution, cited by 4 of 9 Australian academics interviewed was a reduction in costs for the students. In a climate where the rising costs of academic publications have become prohibitive for students any process likely to reduce costs was advantageous to the learning environment. Resources that did not align with the subject topic schedule were not included in the publication. This aspect of the Custom Publishing process also positively impacts on the global environment. The carbon foot-print is decreased as paper wastage is reduced as only the sections of any text that were used in class were published. Reducing the size of the text by not publishing extraneous material and publishing in black and white rather than color also resulted in decreased costs to students. These strategies influence the students' choice to purchase. When more students purchase it is easier to deliver the materials and effect good learning outcomes. Academics commented on issues related to reasons for choosing a custom text, student response to the custom text, success, as evidenced in Table 1. This process enabled the combination of technology education and specialist communication resources.

<table>
<thead>
<tr>
<th>Questions</th>
<th>Respondent</th>
<th>Quote</th>
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<tbody>
<tr>
<td>Why did you choose a Custom solution for your course?</td>
<td>Academic Respondent 2</td>
<td>The option to Custom a book was preferred because it ensured a text that was tailored to meet the requirements of my course and hence best suit my students’ educational needs.</td>
</tr>
<tr>
<td></td>
<td>Academic Respondent 4</td>
<td>The flexibility is important because it enables me to tailor the text to my course rather than tailoring my course to reflect and incorporate the text.</td>
</tr>
<tr>
<td>What difference did the Customised content make to</td>
<td>Academic Respondent 8</td>
<td>The students need not search, locate or purchase multiple textbooks and references, and had them all in a compiled form for learning. Furthermore, students’ request for additional information can be included in</td>
</tr>
<tr>
<td>your students?</td>
<td>the preparation of the next customized text.</td>
<td></td>
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<td>----------------</td>
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<td></td>
</tr>
<tr>
<td>Academic Respondent 6</td>
<td>Not one student has said that buying the book was a waste of time - and there are over 300 of them. They have found the content specific and relevant to their ongoing teaching requirements.</td>
<td></td>
</tr>
<tr>
<td><strong>Was it successful? Why/Why not?</strong></td>
<td>Academic Respondent 3</td>
<td>Yes, it was successful for the reasons stated above. The drawbacks are black and white printing to keep costs down and certain sections such as glossary and answers to all chapter questions omitted, also to keep costs down. However, with several copies of each of the full texts available in the XXX library on short access loan, all these problems can be overcome by the students accessing the books as they need.</td>
</tr>
<tr>
<td>Academic Respondent 6</td>
<td>The book is successful because it is customized, which means every chapter is included as part of the unit. For example, there are weekly readings, reflection activities and discussions around the set chapters, with the focus coming directly from the book, rather than me having to devise appropriate responses to the text. The major assessment, an electronic portfolio, also includes mandatory inclusions from the textbook. Every part of the book is utilized.</td>
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Pearson Education Australia launched its dedicated Custom Publishing program in 2004 and it has seen an average annual growth rate of 40% - the fastest growing part of the business. Custom texts can be made up of derivative or original material or a combination thereof. In the first year or so, source content was drawn primarily from textbook content at the chapter level and the selected content was re-ordered, reprinted and bound as a hard copy custom textbook. There was minimal editorial work undertaken.

As the academic market has become used to the concept of customization they have sought more extensive customization which has required some re-editing and redesigning of the source content to ensure it fits together in a more cohesive manner. Academics are able to incorporate their own contextualized resources and have them professionally packaged within the purchased text, to meet local student needs. This is an absolute necessity to enable a re-configuring of the narrative and to ensure the alignment of specific assessments to the learning objectives and activities. Every customized solution still provides an aesthetically designed cover and layout, readable type, well-written copy and appropriate language for the level of learning [Speckler, 2008].

**VI. CONCLUSION**

This paper has captured the perspectives of the key participant group in creating the future of custom texts: the academics who design the custom texts, with a focus on constructive alignment in subject delivery. The publishers are attempting to provide learning solutions that keep pace with technology innovations used in higher education teaching and learning resource delivery and competitors in their industry. Publishers have observed a staggering annual growth in custom publishing which is an indication of positive academic and student responses to custom publications.

The paper has made the point that in order to create and facilitate measurable work based learning tasks that ensure ‘work ready’ graduates all of the workplace skills cited in this paper must be addressed. Designing and implementing activities and assessments that embed
generic professional capabilities, academic theories and concepts and the needs of industry is a complex task. Creative ICT solutions in industry necessitate students being equipped with IT specialist knowledge, an ability to communicate effectively and general business knowledge together with the capacity to problem solve. Students not only embrace technology and customized solutions - they expect them. Customization of academic resources using the vast databases of copyright material and technologies to support download and communication has changed the academic resource development landscape. The fact that the resources purchased from publishers can be used flexibly and align with the academic individual needs rather than academics designing texts around texts enables constructive alignment in subject delivery.

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ABOUT THE AUTHORS

Dr Joan Richardson has led strategically aligned university projects that require technology or systems changes/improvements to staff work-practice and the student learning experience. These have ranged from business systems that enable efficient benchmarking of programs against accreditation requirements, to the development of suites of curriculum resources delivered using emerging technologies. Her passion for new technology innovation, expertise as a Business Analyst and extensive operational experience enables significant contributions to the Information Systems (IS) discipline in industry. Turbulence and increasing competition in the higher education sector and Information Communication Technology (ICT) marketplace, combined with rapidly changing technologies, have necessitated fast creation of innovative curriculum that address real issues and opportunities.

Professor Ross Smith has been a member of faculty at the Australian National University, Swinburne University of Technology, Deakin University and, since January 2007, at RMIT University. He has taught widely across the curriculum in areas such as business computing, systems analysis and design, supply chain management, software engineering, systems implementation, and software project management. Ross has researched and published widely in systems methodologies, requirements engineering, and knowledge management. He has also researched and published on the practice of Work Integrated Learning (WIL) in the education of the IS professional. In 2006, Ross was a joint winner of a Carrick Australian Citation for Outstanding Contributions to Student Learning.

Mr Ryan O’Hare is the Higher Education Learning Solutions Manager for Pearson Learning Solutions. His role involves working with Universities and Institutions on needs and solutions, away from the traditional textbook model Pearson is renowned for. The Learning Solutions Division has been created to work in partnership with many Australian universities on projects including:

- Addressing literacy and numeracy concerns
- Enhancing the ‘First Year Experience’
- Personalised student learning with measurable assessment
• Aligning learning outcomes with curriculum
• Varieties of course materials and delivery - ebooks, online courses and content, customised resources, etc and much more.