

e-ISSN: 2348-6848 & p-ISSN 2348-795X Vol-5, Special Issue-9 International Seminar on Changing Trends in Historiography: A Global Perspective



Held on 2nd February 2018 organized by **The Post Graduate Department of History. Dev Samaj College for Women, Ferozepur City, Punjab, India** 

# The Emergence of Competitive Intelligence: A Historical Perspective

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#### **Abstract**

It has been demonstrated by several studies that new curriculum initiatives such as enterprise systems have a predictable lifecycle. This paper looks for trends in competitive intelligence (CI), a new area of study that is finding a place in the curricula around the world. In this paper, an attempt is made to examine existing research concerning CI, to list the varied approaches through which CI's role in educational curricula is considered and to trace the history of its emergence. A survey of CI course offerings was conducted in US and Australia with an objective to identify trends outside a single culture or education system. It shows that CI is an independent degree program rather than just a component of other programs. The methodology used in this study reveals how historical perspective can be helpful to the curriculum planners to identify the new issues.

Keywords: Syllabus trends, Competitive intelligence, Computer education, computing history

## Introduction

The curriculum planner in technology-dominated areas is often faced with a rapidly moving target and very few planning tools. This paper looks at a new discipline that is emerging and attempts to plot the trend of its emergence. The process of looking at the introduction of a new role for technology as a topic for courses and programs in two countries should help the curriculum planner see the utility of considering a historical perspective when planning for new trends. Competitive intelligence (CI) is a systematic program for gathering and analyzing information about key stakeholders, such as competitors, customers, and suppliers, in order to find new opportunities and stay competitive. CI is based on the premise that through analysis of data, companies can predict the probable future actions of these stakeholders. Organizations use the CI process to gather information, to add value to it through analysis, and to report the findings to managers to assist them in making tactical or strategic decisions or satisfy requests for information. CI projects range from obtaining competitive information about competitors or customers to information on recruiting or mergers and acquisitions. The types of information needed for such projects may include financial information, demographics, biographies, economic indicators, news articles, and customer and competitor information. With the vast amount of information that is available on every topic imaginable, it is vital that the knowledge gained from CI activities be managed in a systematic manner. Once the





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information is secured, it must be analyzed and proper reports must be generated and disseminated to the appropriate individuals within the organization.

CI provides a means of gathering and analyzing information for use in developing global strategies. It is critical to get the right information into the hands of the appropriate people at the time they need it to make decisions. Identification of key economic, social, and technological issues that affect the organization, its life cycle stages, and their relevance to each other helps managers allocate attention and resources to them. Organizational adaptation, survival, and competence in the face of discontinuous environmental change require access to timely and accurate information, as well as tools to constantly monitor, analyze and interpret that information. CI is a fundamental, early step in the chain of perceptions and actions that permit an organization to adapt to its environment. CI must be able to uncover and provide information that will allow management to identify and fill gaps in consumer or business demand curves that are unfulfilled by the products and services that are currently available.

## **CI Education Research**

Facets of competitive intelligence gathering have been a part of business for many years, but Prescott states that the systematic orientation towards CI is a fairly recent phenomenon, citing Ecells and Nehemkis. Other sources point to Porter's work as the foundation of modern CI. However, Underwood maintains that business-related intelligence came into use in the 1960s. and all published intelligence research during this period. The 1980s saw the introduction of formal intelligence gathering functions and in 1986, the Society of Competitive Intelligence Professionals (SCIP) was founded. Juhari and Stephens note that the technology explosion of the 1990s probably stimulated the notion of CI being something new or revolutionary. The emergence of the Internet and online databases offered an almost overwhelming supply of information.

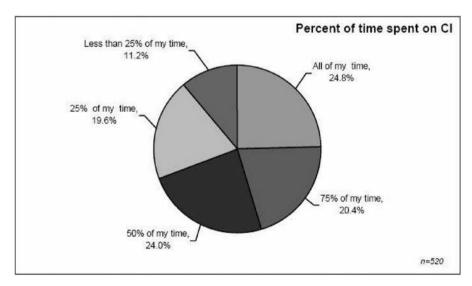


Figure 1 Time spent on CI



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#### CI in Industr

It is possible for issues in education to be self-sustaining and independent despite having no real use. Sometimes an issue will be seen as demonstrating some underlying principle that is not yet used in industry. CI is not one of those issues and much evidence can be found of its use. The Competitive Intelligence Institute conducted a survey of over 500 practitioners in 2005 and 2006 and found "Awareness is high and CI visibility has increased in many organizations. Most CI practitioners create exposure to senior management through distribution of their deliverables. They present an excellent opportunity for CI practitioners to demonstrate the value competitive intelligence provides to the organization." This survey showed that CI was mostly a part time activity, but that many practitioners spend much of their time in CI dedicated activities (Figure 1).

#### Overviews of CI

A good starting point for an analysis of CI education research is McGonagle's bibliography of publications that deal with university education and professional training. Prescott presents an informal sampling of CI programs across the globe. Davis, Kohun, and Woratschek also present a table of U.S. Universities and Colleges with offerings in CI/BI, breaking them down by those that have a degree program, those that offer a professional certificate, and those that offer courses only.

## The Dispersion of CI Into Schools

Merrit laments that most educational institutions have not incorporated CI into their academic programs. He points out that many teach only business research techniques that follow time-insensitive methodologies, ignoring current business requirements. He speculates that a major obstacle to the development of CI courses is a combination of inexperienced instructors and limited teaching materials. He then prescribes a course of action that involves developing suitable instructional materials, training faculty members, and making career placement centers aware of intelligence internships and entry-level CI positions. Fleisher agrees that formal educational offerings in CI have been constrained by a variety of factors including a dearth of CI offerings at the post-secondary level, confusion about the proper placement of CI studies, and a lack of an agreed upon body of knowledge, core texts, and case studies.

Prescott offers a different perspective. He observes that while business schools may not be teaching dedicated CI courses, most universities offer a wide range of courses that include CI content. With that as a basis, he contends that most schools are already positioned to offer business majors in CI. He ponders that the barrier to implementing a CI major is political rather than economic. Fleisher reflects that educational offerings will likely grow slowly and that prospective and current CI practitioners may have to fall back on formal and self- directed learning opportunities.

## Where Does CI Fit In?

Calof discusses the best fit for a CI course or program using SCIP's CI skills checklist as a yardstick. He stresses the importance of the integration of multiple techniques to



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understand how the firm should react to various situations. He complains that few schools of business teach interview methodology, revealing his unfamiliarity with the course content of many systems analysis and design courses in information systems programs. He then points out that most universities that offer CI

include it in with strategy (his recommendation), although some include it in IS or marketing. He concludes that three approaches should be considered if a school is serious about CI: integration into existing courses, an intelligence capstone course, or a dedicated intelligence program.

Fleisher notes several key trends that are discernible in CI education. They include integration with other disciplines and areas, horizontal education in which knowledgeable industry participants are trained about CI, the increasingly global emphasis of CI and its need to address global competition and competitors, and the fact that CI education now addresses technology in terms of both content and process. He points out that "it would be difficult to teach CI without discussing the importance of database management and structure, secondary data acquisition formats and processes, network formats, enterprise information systems integration, information security, and communication protocols." Miller also stresses integration with other disciplines. He points out that a comprehensive curriculum includes strategy development, market research, primary research methods, statistics, information sources, and interviewing and communication techniques. These topics are drawn from multiple disciplines, including information science, business administration, statistics, communication, and journalism. The intricate relationships between CI and other academic disciplines were also a key theme at the SCIP/Drexel CI Academic Conference.

This same survey showed that a wide range of activities in business are supported by CI (see figure 2). We can see, from the existence of the group supporting CI and the way in which practitioners can identify their CI activities, that CI is a part of the industrial landscape.

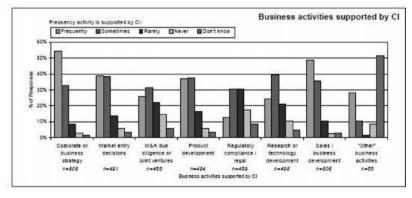


Figure 2 Business activities supported by CI

## CI and Education

CI education research can take a variety of paths. While some authors focus on what topics are critical to a CI education or the best fit for a CI program, others take different



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approaches. Some authors focus on the best teaching approaches to use when teaching CI courses. Others prefer to describe what their university has done with their particular CI program. Still others view CI from the context of library science.

## What Should Be in a CI Program?

Miller points out that completing coursework is insufficient preparation for a career as an intelligence professional, especially since many professionals may find the trait-coursework-experience-mentoring sequence inappropriate for their training needs. SCIP/Drexel (2001) discussed the skill sets that CI managers look for in new recruits, such as forecasting, cultural analysis, and experience with analytical techniques. Teaching priorities include such things as the need for MBA capstone courses, forecasting, and training MBAs to be consumers of CI. Miller states that "[a]n effective CI

educational program must emphasize practical techniques and approaches for conducting CI rather than nebulous academic theories."

Some studies take a more narrow focus than general issues that impact CI education. Several reflect on the best teaching approaches to use when teaching CI courses. Blenkhorn and Fleisher look at different teaching approaches that are best suited to the diverse groups that might be encountered in an academic setting, including undergraduates, MBAs, and executives. They conclude by specifying a set of goals that would facilitate teaching CI to the diverse groups, one of which is achieving consensus among CI educators about the scope of CI and what it entails. Hulnick describes his experiences in developing a CI course for liberal arts students. Kinsinger discusses how to better prepare MBA students to make better use of CI resources when they join (or rejoin) the workforce. The author first complains that MBA programs do not prepare students to understand the drivers to critical thinking: how they learn, think, and decide. He further generalizes that most MBA teaching is done in off-the-shelf formats. He then states that future executives must be trained to maximize the value that they receive from CI tools by learning to understand the premium ingredients of a quality intelligence product, assess the density and reach of the information source base and the features of the analytical frameworks and methodologies.

## Current State of CI in Academia: U.S. and Australia

The next step in examining CI education is to identify the types of academic offerings currently available at institutions of higher education.

## **U.S. Programs**

Table 1 lists U.S. schools that have been identified as offering courses or programs with a CI component. In the first column are the six schools that offer full degree programs at either the undergraduate or the graduate level. The second column shows the eleven schools that offer professional certification in CI. Three of these offer full degrees as well. The last column lists the sixteen schools that offer only a course (or courses) identified as having CI content. Again, these courses are offered at both the undergraduate and the graduate level. The schools in the first two columns of Table 1 offer formal programs and



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certificates, and therefore can be used to determine representative course offerings or sequences. The schools that offer only individual CI courses cannot be used in such an analysis and as a consequence only the first two columns will be considered.

A comparison of degree programs and certificate programs reveals that the major difference is that the certificate programs offer more CI-focused content than a traditional academic degree program. This is not unexpected since those seeking a certificate are generally professionals requiring a specialized program that restricts itself to core knowledge about a field such as CI. Degree programs normally require students to take a wide range of courses in addition to their specialization, and may therefore incorporate everything from liberal arts to business foundations. In addition, CI programs themselves will vary based on where the program resides. For example, if the CI degree program resides in the college of business the program places more emphasis on the role of CI in solving business problems, whereas if the CI degree program is associated with an information and library science program there may be an emphasis on finding and cataloging information. Because

Certificate programs are not representative of typical academic requirements, they will not be considered in our discussion of CI in academia.

Table 1 US CI Education Programs, Certificates, and Courses

Degree Program	Professional Certificate	Courses Only
American Military U. Dominican U.	American Military U. Babson College	Boston U. Brigham Young U.
Johns Hopkins U. Mercyhurst	Dominican U.	CalTech Champlain College
College Robert Morris U. Simmons	Drexel U. Marist College	Harvard U.
College	Notre Dame College Simmons College	Hawaii Pacific U. Idaho State U.
	Trinity College	Indiana U.
	U. of Pennsylvania	Kent State U. Rutgers
	U. of Tennessee	Thunderbird UCLA
	U. of Washington	U. of Central Missouri
	_	U. of Hartford
		U. of Pittsburg

An examination of degree titles from the six schools in column one shows a variance across these offerings and shows how few "true" CI programs there are. Table 2 shows that only two of the six are actual master's degrees, three are degree concentrations, and the last is a master's degree in strategic intelligence rather than competitive intelligence. This indicates that the discipline is still in its nascent stages with regard to academia and as such, academia appears not to be meeting the needs of industry.





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## Table 2 CI Program Variance

## Master's Degrees in Competitive Intelligence

Robert Morris University

Department of Computer and Information Systems Master of Science in Competitive Intelligence Systems Simmons University Graduate School of Library and Information Science

Master of Science in Competitive Intelligence

## Degree Concentrations in Competitive Intelligence

American Military University

Master of Arts in Intelligence Studies Concentration in Competitive Intelligence Dominican University

Brennan School of Business

Master of Science in Knowledge Management Concentration in Information Science

Johns Hopkins University Carey Business School

Master of Business Administration

Concentration in Competitive Intelligence

## Degrees Specializing in Strategic Intelligence

Mercyhurst College

Institute for Intelligence Studies

Master of Science in Applied Intelligence

The next step is to examine the required courses in the six-degree programs. Table 3 shows little commonality across the degree programs. Although some of this may be attributed to the above issue regarding where the degree program is housed, there may be other reasons for the lack of a consistent set of courses. On the technical side CI programs offer courses in Database Management, Data Mining and Warehousing, Information Systems Analysis and Design, Informatics, Knowledge Management, and Metadata under a wide variety of titles. On the strategic side CI programs offer a variety of courses with a more managerial basis, such as Strategic Intelligence, Interagency Operations, Competitive Intelligence, Legal and Ethical Issues in Management, Industrial Espionage, Intelligence Theories and Applications, Managing Strategic Intelligence Analysis, Leadership and Organizational Behavior, Introduction to the Intelligence Function, and Organizational and Legal Issues in Technology. There may be some overlap in course content depending on how they are structured.





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## Table 3 CI Course Offerings in Graduate Programs

Robert Morris University	Simmons College	American Military University	Dominican University	Johns Hopkins University	Mercyhurst College
_	Intelligence	Research Methods in Intelligence Studies	U	Issues in	Intelligence Theories & Applications
Database Management Systems	Basic Analytical Tools & Techniques	Strategic Intelligence	Org. Analysis & Design		Topics in Intelligence
Cyber law & E- Commerce	Conducting CI Legally	Collection	Management Information Systems	Discovery	Strategic Business Intelligence
Computer Network Security		Analytic Methods	Organization of Knowledge	Knowledge Management	Managing Strategic Intelligence Analysis
CI Systems		Interagency Operations	Information Policy		Intelligence Commun.
Data Mining		Competitive Intelligence	Org. of Knowledge		Leadership & Org. Behavior
Data Warehousing		Legal/Ethical Issues in Mgmt	Database Management		Comparative History of Intelligence
		Industrial Espionage	Info Systems Analysis & Design		
			CI for Mgmt. Decision Making		

## **Australian Programs**

Table 4 lists Australian schools that have been identified as offering courses or programs with a CI component. We were unable to locate any Australian universities that offer a degree program or certificate in CI. The last column lists the eight schools that offer only a course (or courses) identified as having CI content. Again, these courses may be offered at the undergraduate and/or graduate level. Because the schools that offer only individual CI courses cannot be used in an analysis of representative program content, it is difficult to draw any conclusions about CI educational offerings in Australia, other than the fact that CI education is not yet considered adequately significant to merit a specialized degree.



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## Table 4 Australian CI Education Programs, Certificates, and Courses

Degree Program	Professional Certificate	Courses Only
		Curtin U. of Technology Macquarie
		U.
		Monash U. RMIT U.
		Swinburne U. of Technology
		U. of South Australia
		U. of Technology Sydney
		U. of Western Sydney

#### **Future Research**

Future research will attempt to establish essential components of CI graduate education, as well as a set of IS courses that best complements a CI program. Additional research will consider the parallel between the development of CI and computer science (CS) programs. Most CS programs were originally founded in either Mathematics or Engineering departments, and many CI programs have their genesis in Information and Library Science programs or in a college of business. In the case of CS, the program was highly influenced by its host discipline, and it will be useful to see if the same holds true of CI programs.

One possible solution to the problem of slow infiltration of CI programs, one that will be elaborated on in a future paper, is the development of multiple CI tracks. These tracks, one with a technical emphasis and one with a managerial emphasis, will be designed with minimal overlap in order to complement each other. The availability of tracks will allow students to select that program that best fits their interests and skills. It will also allow the program to be developed and implemented in increments rather than all at once. A model curriculum will be proposed and made available so that it can be adopted by other schools, thus making more feasible somewhat faster growth of CI in academia.

#### Conclusion

The literature review establishes that over the last ten years there has been much discussion about the need for a cohesive CI educational program in academia. The examination of the offerings currently available clearly indicates that the need still exists even though some schools now offer degrees or certificates. Many more schools restrict their CI offerings to a single course or a few courses. These courses can, however, serve as a starting point for more detailed programs and help to indicate what will and will not work. Further, their very existence enhances the visibility of CI with both students and recruiters.

When viewing the deployment of CI courses in terms of the ERP Education Deployment Maturity Model, it seems that CI can be categorized as Stage 2 (Adaptive) or Stage 3 (Developing). In the adaptive stage curriculum from others is adapted to the environment of the school, and some integration across courses within disciplines is evident. In the Developing stage curriculum is developed within the school and is specific to courses within the school's environment. This stage is also categorized by integration across disciplines, which is not yet evident. It is clear from the analysis of existing degree programs that CI educational programs, whether in the US or Australia, are still in their nascent stages. The



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presence of individual courses in Australia with the complete lack of full degrees or certificate programs shows that CI is in an earlier stage of evolution in this otherwise developed educational environment. Before they reach full maturity a developed curriculum, as the one described in the future research discussion, must be made repeatable across multiple school environments, and eventually shared with other schools. Finally, that curriculum must be extended to in-depth processes that cross functional silos. It will require time and effort before this is possible for competitive intelligence, but industry need for CI workers may eventually spur greater academic efforts.

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e-ISSN: 2348-6848 & p-ISSN 2348-795X Vol-5, Special Issue-9

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Held on 2nd February 2018 organized by The Post Graduate Department of History. Dev Samaj College for Women, Ferozepur City, Punjab, India

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