A curriculum based on systems theory.

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A Curriculum Based on Systems Theory

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Key Words: education • human activities and occupations

This paper describes an entry-level curriculum based on systems theory that was designed to promote integrated thinking and a shared image of practice among all of the members of an educational community that included students, faculty, and clinicians. Initiated in 1983, the program integrates occupational therapy theory, critical thinking, and knowledge about person-environmental transactions with traditional medical, biological, psychological, and sociological course work to create a unique educational experience. The curriculum model is based on a spiral learning process that encourages integrated thinking. Furthermore, all concepts are systematically tied to the occupation core, the central theme of the program. Fieldwork is used to reinforce ideas presented in the classroom and features discrete learning experiences where students demonstrate their integration of knowledge and skills.

In an evaluation of the program, responses from 78 clinician, 51 alumni, and 132 student questionnaires; feedback from 132 fieldwork supervisors; and longitudinal data from 33 alumni confirmed that graduates are critical thinkers who appreciate the diverse needs of clients while demonstrating an appreciation for the curative effect of meaningful, goal-directed activities.

Thirty years ago, Reilly challenged educators to place occupation at the core of professional education (Reilly, 1958, 1966, 1969, 1971) using systems theory as the structure or framework for learning (Rogers, 1983). Systems theory offered an organizational structure in which students could order ideas, starting with basic concepts, and build understanding so that seemingly diverse units of information were unified into an integrated approach to individual care. Reilly maintained that an occupational therapy conceptual foundation must unify knowledge from science and humanities and promote communication among specialists (von Bertalanffy, 1968; Boulding, 1968).

This paper describes a curriculum developed 10 years ago at Thomas Jefferson University in Philadelphia with systems theory as the framework and occupation as the core curriculum concept. It includes the program mission, philosophy, goals, the use of systems theory as a curriculum organizer, course offerings by semester, the use of fieldwork as a bridge linking didactic and clinical work, and the curriculum evaluation and outcome measurement process.

Overview of the Program Mission, Philosophy, and Goals

Curriculum planning begins with the program mission, philosophy, and goals. These ideas set the direction of other efforts and offer a context for further program planning.

Mission

The Thomas Jefferson University mission is to educate qualified physicians, nurses, biomedical scientists and allied health personnel; to expand our understanding of human beings and their environment through research; and to provide and promote health services as a basis for clinical education. To pursue these purposes with balance and distinction, the University fosters a medically, biologically, and health oriented community of scholars, teachers, and clinicians who are dedicated to high quality patient services based on expanding knowledge and understanding of human beings. (College of Graduate Studies, 1992-93, p. 9)

On the basis of these university values and goals, the Department of Occupational Therapy curriculum mission emphasizes the knowledgeable and skilled practitioner who is able to function in medical as well as community-based organizations. Rogers (1982a) captured the essential characteristics of this person when she described the "inquisitive practitioner" as a curious problem-solver who uses the occupational therapy process, research, and his or her own abilities to deliver quality client services.

Scholarly practitioners possess intellectual curiosity and are critical, reflective thinkers. They see knowledge as the foundation of practice, and they view inquiry as the means of organizing, adding to, and refining knowledge. They recognize that it is not enough to treat clients without also seeking better ways of treating them.
The curriculum planning began with the faculty who wanted to teach students to think critically and analytically about the occupational nature of humans. An advisory committee composed of faculty from other programs, practitioners, and employers soon clarified that the most important characteristic of an entry-level graduate was the ability to solve problems and give and receive feedback. Recent findings in clinical reasoning research reinforce these ideas by emphasizing the importance of critical thinking and problem solving rather than promoting the memorization of predetermined treatment approaches (Benner, 1984; Burke, 1983; Burke & DePoy, 1991; Fleming, 1991; Mattingly, 1991; Parham, 1987; Schön, 1983). Thus, the graduate who thinks critically about clinical problems demonstrates the qualities of a reflective, inquisitive practitioner rather than those of a technician (American Occupational Therapy Association [AOTA], 1986).

**Philosophy**

A broad program philosophy was used to integrate the diverse ideas of curriculum planners and to shape all curriculum and teaching methodology decisions. The Jefferson occupational therapy program planners recognized that a philosophical statement could unify different practice approaches, creating an educational program that emphasized core concepts and beliefs. Toward this end, it seemed best to place occupation at the core of the curriculum while reaching back to the early tenets of practice: (a) mind-body unity and (b) consideration of the person in the context of his or her environment.

**Occupational as a Core Concept**

Occupational science is emerging as one of the fundamental knowledge bases that should be taught to students during their professional education (Yerxa et al., 1990). A curriculum with an occupational core integrates concepts from biological, medical, and social sciences as well as knowledge from the humanities and applied fields with information on the occupational nature of humans (Reilly, 1969). Given the complexity and breadth of such a core, systems theory becomes an important conceptual tool that offers a framework for focusing student attention on the biopsychosocial nature of humans rather than on pathology.

This approach is a departure from many of the curriculum planning ideas used as the foundation for other educational programs. During the Jefferson planning period, human growth and development, medical pathology (psychiatry, pediatrics, and physical dysfunction) and psychology (Maslow’s Hierarchy of Needs) were studied as conceptual frameworks. However, the Jefferson program planners were intrigued with Reilly’s ideas and set out to operationalize them. In 1969 Reilly maintained that “challenging old values and reconstructing new ones, [sic] are necessary steps in furthering an independent professional identity” (p. 299). Thus, the design of entry-level education is more than an organizational plan for making students learn facts and skills; it is the faculty’s image of future practice. In this way, faculty have a potentially enormous influence on practice. Jantzen (1974) once described this potential influence as a geometric progression of ideas in that one faculty member teaches 50 students per year; these students graduate and in turn become 50 practitioners who teach many clients, students, and colleagues. Thus, Reilly’s challenge to reconstruct our professional identity as based on the occupational nature of humans could be addressed by placing occupation at the core of the entry-level curriculum.

**Curriculum Goals**

Once the mission and philosophy were established, faculty developed an image of the graduate who was a knowledgeable and skilled professional with humanistic values, able to frame and solve problems. Eight curriculum competencies were developed to focus on issues involving the human condition, the health care system, persons, and treatment as well as professional development, therapists’ roles and treatment settings, and clinical reasoning (see Appendix). Finally, students were required to assess personal attributes such as demonstrating self-knowledge and the ability to adapt to emerging situations and conditions.

The inclusion of clinical educators in this phase of planning guaranteed a cohesive curriculum in which agreement on desired outcomes was shared and learning was structured toward achievement of those outcomes. At this time it was important to have a comprehensive understanding of the interplay between learner needs and professional entry-level program and contemporary issues shaping the students’ educational experience (Tyler, 1949). On the basis of such an understanding, learning experiences were created by design, through use of structure in the classroom and clinic to stimulate the desired outcome behaviors in students. Furthermore, Jefferson curriculum planners wanted students to feel challenged and competent at the same time, which meant that novelty and repetition had to be carefully balanced.

**Program Description**

Using systems theory, the curriculum introduces concepts in a progressive spiral of learning first described by Bruner (1960). On the basis of Reilly’s ideas (1958, 1966, 1969, 1971), faculty developed a learning matrix with occupation at the core and all other knowledge presented as it relates to the occupational nature of humans (Rog-
The matrix creates a taxonomy of learning (see Figure 1). For example, because the students have prerequisite knowledge of anatomy and physiology, they study surface anatomy, which includes a laboratory where the muscular basis of motion is analyzed through real-life examples. Students decide how someone with nerve damage can hold a pencil and how a person with paralysis can reach for a spoon. Because graduates have a solid foundation in systems theory, a vision of the underpinnings of the profession, and the ability to relate all knowledge to occupation, they would gain the ability to perform successfully both inside and outside the framework of medical practice.

Yerxa and Sharrot (1986) emphasized the importance of humanism in occupational therapy education. These ideas were consistent with the faculty’s shared image of practice, which focuses on occupation and expands beyond the limitations of medical and biological frameworks. Therefore, to ensure that students entered the program with a humanistic focus, preadmission learning was integrated with courses in the professional curriculum. Prerequisites are as follows:

- English—6 semester hours
- Biology with Laboratory—6 semester hours
- Anatomy and Physiology—6 semester hours
- College Math—3 semester hours
- Introduction to Sociology—3 semester hours
- Ethnic Sociology/Cultural Anthropology—3 semester hours
- Introduction to Psychology—3 semester hours
- Developmental Psychology—3 semester hours
- Abnormal Psychology—3 semester hours
- Electives—15 semester hours.

These prerequisites are designed to balance information that is fundamental to the occupational therapy process.

<table>
<thead>
<tr>
<th>Levels</th>
<th>Biologic Domain</th>
<th>Psychologic Domain</th>
<th>Social Domain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social</td>
<td></td>
<td>Values, goals, temporality, interests and personal causation</td>
<td>Tradition of values, meanings, and technology which impact occupation</td>
</tr>
<tr>
<td>Symbolic</td>
<td>Brain as coordinator of sensory and motor information and as infrastructure of images</td>
<td>Complex network of images that constitute an inner model of the external world</td>
<td>Impact of culture on personality such as definitions of time, cultural interests, values, and so forth</td>
</tr>
<tr>
<td>Iconic</td>
<td>Differentiation and specialization of nervous and musculoskeletal systems</td>
<td>Differentiation of occupational behaviors and their underlying symbols and images over the lifespan</td>
<td>Skilled actions and performances maintained in the group tradition</td>
</tr>
<tr>
<td>Differentiated</td>
<td>Feedback loops in the nervous system</td>
<td>Feedback regulation of skilled action and social feedback modifying self-concept</td>
<td>Divisions of labor and integration of individuals in group</td>
</tr>
<tr>
<td>Open</td>
<td>Spontaneous, holistic, and self-maintaining process of sensory input and motor output</td>
<td>Spontaneous urge for activity as organizing principle. Occupational behavior as self-maintaining output</td>
<td>Organizations as self-maintaining systems with input, output, and throughput</td>
</tr>
<tr>
<td>Cybernetic</td>
<td>Kinetics of movement simple reflexes</td>
<td>Feedback regulation of skilled action and social feedback modifying self-concept</td>
<td>Social feedback processes regulating performance of group members</td>
</tr>
<tr>
<td>Clockwork</td>
<td></td>
<td>Balance of work and play, dynamics of life space</td>
<td>Dyadic interaction and group dynamics</td>
</tr>
<tr>
<td>Framework</td>
<td>Anatomy of the musculoskeletal and nervous systems</td>
<td>Pattern of motives and symbols which energize and organize behavior</td>
<td>Social roles and status within group structure</td>
</tr>
</tbody>
</table>

with the faculty’s desire to expose students to humanistic knowledge. Students can merge basic biological information with humanistic concepts and ready themselves for further personal and professional development.

**Systems Theory as a Curriculum Organizer**

As illustrated in Figure 1, the curriculum uses a matrix to systematically structure the learning experiences of students. The matrix reflects the work of Boulding (1968), an economist, who refined the ideas of a biologist, von Bertalanffy, to develop a framework to promote communication among scholars who work in different fields. Reilly applied these ideas to occupational therapy education in a 1978 workshop held in Philadelphia, and Kielhofner (1983) and Rogers (1983) linked these ideas to practice. The matrix, which describes the hierarchical knowledge in biopsychosocial domains (Kielhofner, 1983; Reilly, 1956, 1966, 1969), orders levels of knowledge (see Figure 1) and provides an organization for governing the relationships among the levels in the system. In the Jefferson educational program, the first level of the matrix combines preadmission learning with basic information on biological systems (e.g., surface anatomy, the development of reflexes, an overview of practice and medical pathology). As each semester unfolds, student learning progresses to include increasingly sophisticated social systems concepts. Multilayered ideas that require integration of concepts for clinical reasoning, intervention planning, and research complete the spiral of learning. At the same time, clinical assignments progress in complexity, promoting student competence in skilled observation, critical thinking, problem solving, and occupation-based interventions. This spiral learning process is designed to guide student learning toward an integrated system of didactic and clinical experiences that is presented in the next section of this paper.

Fieldwork is an integral aspect of learning, linking theory and practice by highlighting various aspects of the occupational therapy process. In each of four clerkships (level I fieldwork), students demonstrate skills that reflect an integration of classroom knowledge and clinical abilities. The faculty member and clinical supervisor use assignments that strengthen the student’s knowledge of the occupational therapy process: observation, evaluation, theory-based treatment intervention, and outcome measures. Traditional and nontraditional practicum sites offer experiences with a variety of populations, and students’ assignments are rotated so each student works with persons of a variety of ages and disability areas. Assignments are holistic, generic, and applicable to a broad variety of settings, ranging from traditional rehabilitation clinics to residences for the homeless. Communication with clinical educators is reinforced with site visits, telephone consultations, course outlines, specific assignment instructions, and clinical council meetings. For example, students are asked to evaluate a client who has deteriorated habits and roles rather than a person with a specific medical condition. Each semester is described briefly below.

**First Semester**

In this semester, students gain the building blocks for subsequent semesters by studying the physical determinants of occupational performance. Surface anatomy includes the structures of the body as well as a laboratory that requires experience and visualization of the body in motion. Motor development examines the development of reflexes in depth, focusing on children. Medical pathology is a survey course that uses physiatrist–lecturers who describe musculoskeletal diseases and medical intervention. At the same time, an occupational therapist serves an important role as course coordinator. Clinical skills, such as walking and transferring a client, taking a blood pressure, making a resting splint, and measuring range of motion are introduced in a laboratory class. The domain of occupational therapy practice is discussed in an overview course that previews theory and practice, professional identity, and practice domains, ideas that will be repeated in other courses. Assignments in clinics where clients are chronically disabled further emphasize the content of this course through student participation in guided observations that require communication skills.

**Second Semester**

The second semester of the program focuses on the evaluation process, occupation as a central aspect of human behavior, and the cognitive, psychological, social, and neuromotor determinants of occupational performance. Neuroanatomy is taught by an occupational therapist who directs a laboratory using brain specimens with the assistance of occupational therapist laboratory demonstrators. Lecture material emphasizes the applied aspects of the neuroanatomy. In an occupations course and accompanying laboratory, students learn about the curative aspects of occupations, how to prescribe and analyze activities, and how to learn about and teach others selected occupations. Additionally, students learn to evaluate persons using the concepts of role and occupational dysfunction and to synthesize information gained through observation and evaluation in order to formulate professional treatment plans and goals (Christiansen, 1991; Rogers, 1982b; Rogers & Holm, 1989; World Health Organization, 1980). Medical pathology focuses on neurological pathology and psychiatric dysfunction as an extension of the previous pathology course. A course on promoting client competence builds on the research of White (1971) and Allen (1985) and requires an understanding of the development of cognitive and psychosocial abilities. Students apply their developing knowledge.
### Evaluation of

<table>
<thead>
<tr>
<th>Evaluation Sources</th>
<th>Student Learning</th>
<th>Faculty Effectiveness</th>
<th>Course and Curriculum Effectiveness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinicians</td>
<td>A Level II Fieldwork Evaluation</td>
<td>F Fieldwork Site Visit Report</td>
<td>J Supervisory Assessments</td>
</tr>
<tr>
<td></td>
<td>• Fieldwork Site Visit Report</td>
<td>• Clinical Council</td>
<td>• Level II Fieldwork Evaluation</td>
</tr>
<tr>
<td></td>
<td>• Supervisory Assessments</td>
<td>• Advisory Council</td>
<td>• Fieldwork Site Visit Report</td>
</tr>
<tr>
<td>Faculty</td>
<td>B Grades</td>
<td>G Peer Review</td>
<td>K Weekly Meetings</td>
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<td></td>
<td>• Student Advising</td>
<td>• Chairperson's Review</td>
<td>• Faculty Retreat</td>
</tr>
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<td></td>
<td>• Awards</td>
<td>• Merit Evaluation</td>
<td>• Self Study Process</td>
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<td></td>
<td>• Honors</td>
<td></td>
<td>• AOTCB Certification Exam</td>
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<tr>
<td>Prof. Assoc.</td>
<td>C AOTCB Certification Exam</td>
<td>H Achievement Awards</td>
<td>L Accreditation</td>
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<tr>
<td>Extramural Agencies</td>
<td></td>
<td>• State and Nat'l Offices</td>
<td>• AOTCB Certification Exam</td>
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<tr>
<td>Sponsoring Institutions</td>
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<td>• Presentations</td>
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<tr>
<td>Consumers</td>
<td>D Consumer Evaluation of Student Performance</td>
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<td>Students</td>
<td>E Peer Critique</td>
<td>I Instructor Evaluations</td>
<td>M Course Evaluations</td>
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<td></td>
<td></td>
<td>• Chairperson's Informal Sessions</td>
<td>• Student Evaluation of Fieldwork Experience</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Faculty Advising Meetings</td>
<td>• Chairperson's Informal Sessions</td>
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<tr>
<td>Graduates</td>
<td></td>
<td></td>
<td>N Questionnaire</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Alumni</td>
</tr>
</tbody>
</table>

**Figure 2.** Thomas Jefferson University educational program evaluation.
in their level I fieldwork as they are encouraged to think beyond the limitations of a pathological perspective for the chronically disabled person. The students’ clinical assignments during this semester are focused on the evaluation process, emphasizing evaluation of occupational function and dysfunction.

Third Semester

Moving up the matrix, this semester focuses on the student’s development of a systematic approach to client’s occupational dysfunction using theory-based ideas that reflect the treatment context. Clinical intervention is presented from the generic perspective presented in AOTA documents such as Entry Level Role Delineation (AOTA, 1990), the Hierarchy of Competencies (AOTA, 1984), and Uniform Terminology—Second Edition (AOTA, 1990). Although specific strategies used in traditional, specialty, and emerging practice arenas are examined, they are offered as a means to carry out occupation-directed goals. Specific hands-on skills are developed in the intervention laboratory. Further experience is offered in a course devoted entirely to environmental adaptations, where students are assigned to a chronically disabled client and visit him or her 7 to 10 times. Using ideas grounded in phenomenology, students are expected to promote the person’s competence through environmental adaptations that are culturally relevant. A course in occupational therapy history examines the origin and evolution of practice and encourages students to trace a clinical issue over a decade. In a theory course, students survey occupational therapy theories, compare major theories and models, and link theory to research and quality clinical intervention. Management, public relations, program development, planning, and finding new outlets for service provision are presented in the administration course. The level I fieldwork is linked to the theory and intervention courses and students develop theory-based interventions that are appropriate for a given facility.

Fourth Semester

The final semester of didactic work features courses in advanced, specialized intervention strategies, research methodology, social role development, and several electives. The advanced intervention course is based on clinical reasoning concepts and reinforces treatment and documentation in specialized, theoretically based programs that promote occupational functioning. The social roles course offers an opportunity for students to examine their own roles in a group and to learn how to treat clients in groups. The developmental approach features a full spectrum of client populations so students gain an integrated understanding of group treatment. Learning how to be a research consumer and promoting interest in research is offered in a research design course. The last level I fieldwork rotation provides an opportunity for the development of an integrated understanding of theory-based occupational therapy practice starting with evaluation and reinforcing stages of occupational therapy process.

Level II Fieldwork

Level II fieldwork or full-time clinical experiences follow the senior year. Students are first assigned to a chronic care setting, then to an acute care setting. Specific objectives for each experience are delineated on the corresponding course outline so students, faculty, and fieldwork educators share the same objectives. The student’s transition to practice is addressed from professional and administrative perspectives in two seminars that were originally scheduled in the middle of the learning experience and were moved, 3 years ago, to the week preceding the fieldwork experience.

Curriculum Evaluation

Although the Jefferson curriculum was described by the first on-site accreditation team as “visionary,” clinical faculty were still concerned about the effect of the occupation focus on graduates. For instance, some worried that students were shortchanged by the limited emphasis on medical and biological sciences. To address these concerns, an objective means was devised to measure the performance of Jefferson graduates with a qualitative and quantitative analysis of program effectiveness. Through a range of methodologies and perspectives, a composite understanding of program strengths and limitations was developed. Data collected from six primary sources—clinicians, faculty, extramural agencies, consumers, students, and graduates—were organized in a matrix and used to evaluate student learning, faculty, and curriculum effectiveness (see Figure 2). Data collection methods combined traditional strategies used by most academic programs (examination scores, course evaluations, etc.) with clinician, alumni, student, and consumer questionnaires, and data from a college-wide longitudinal study. Furthermore, a thematic analysis of data from the clinician and alumni questionnaires revealed broader practice issues and provided faculty with a critical understanding of changes emerging in both the academic and clinical communities (Pendergast et al., 1991; Perry & Lee, 1988). These newly emerging practice issues, such as the controversy concerning use of physical agent modalities, were used to interpret the results of the program evaluation and guide faculty discussions concerning curriculum changes.

In addition to analysis of quantitative and qualitative data, the evaluation process involved both a formative (ongoing) and a summative approach. A formative evaluation process offers stakeholders (such as faculty, stu-
Dents, clinicians, and consumers) an opportunity to identify recommendations for change in evolving programs (Guba & Lincoln, 1987). An example of a formative approach to evaluation involves the discussions that take place during regularly scheduled faculty meetings where both student and faculty performance is systematically discussed and assessed. On the other hand, summative evaluation methods, such as questionnaires and the American Occupational Therapy Certification Board (AOTCB) examination scores, are used to assess educational outcomes. Data from these instruments serve as an indicator of student performance and curriculum effectiveness for each academic year.

This comprehensive evaluation process was developed to generate information about the relationships among the curriculum design, curriculum implementation, and student performance. Specifically, the faculty wanted to know whether the systems perspective of the curriculum actually promoted students' critical thinking about the occupational nature of humans. Several indicators of congruence among the systems theory curriculum design, curriculum implementation, and student performance were identified (see Table 1). For instance, one expected outcome of the systems theory curriculum design was to merge humanistic and biological information into treatment that considered the client as a whole person. As shown in Table 1, 98% of clinicians surveyed commented that Jefferson students treat clients holistically. Table 1 presents data to support other indicators of congruence, including student, alumni, and clinician perceptions of Jefferson students' sense of positive correlation between theories taught didactically and their clinical application; integration of theory with practice; individualized treatment planning; effective problem solving; sense of responsibility for continued learning; understanding of the role of the environment in occupational functioning; and recognition of research's contribution to development of the profession. As one surveyed clinician commented, "Jefferson graduates are effective observers who willingly share creative ideas that emphasize reinforcement of patient competence." Thus, the strengths of current student and alumni performance suggest that the design of the curriculum is effective in producing entry-level occupational therapists who demonstrate critical thinking skills.

The evaluation process also helped faculty to focus on areas that require attention, such as growing numbers of students with complex personal problems, and led to creation of a curriculum evaluator position. The curriculum evaluator's primary responsibility is to take the time to collect, organize, and disseminate information on student performance indicators, such as fieldwork supervisors' comments, to faculty, clinical educators, college administrators, and external evaluators. This ongoing method of evaluation includes a process to introduce topics for discussion during weekly faculty meetings and offers time to explore these topics, as well as newly emerging issues, in depth during semiannual program evaluation retreats. To date, this continuing system for monitoring the effectiveness of the Jefferson program has been successfully integrated into a busy faculty agenda.

**Table 1**

<table>
<thead>
<tr>
<th>Indicators</th>
<th>&quot;Yes&quot; Response (%)</th>
<th>Data Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perceives a positive correlation between theory and clinic</td>
<td>95</td>
<td>Student(^1) and alumni(^2) questionnaires</td>
</tr>
<tr>
<td>Considers the client as a whole person</td>
<td>98</td>
<td>Clinician(^3) questionnaire</td>
</tr>
<tr>
<td>Integrates theory with practice</td>
<td>98</td>
<td>Clinician questionnaire</td>
</tr>
<tr>
<td>Individualizes treatment plans</td>
<td>97</td>
<td>Clinician and alumni questionnaires</td>
</tr>
<tr>
<td>Understands the role of the environment in occupational functioning</td>
<td>99</td>
<td>Clinician and alumni questionnaires</td>
</tr>
<tr>
<td>Recognizes contribution of research to practice</td>
<td>96</td>
<td>Clinician and alumni questionnaires</td>
</tr>
<tr>
<td>Demonstrates effective problem solving</td>
<td>93</td>
<td>Clinician and alumni questionnaires</td>
</tr>
<tr>
<td>Takes responsibility for own continued learning</td>
<td>96</td>
<td>Clinician and alumni questionnaires</td>
</tr>
</tbody>
</table>

\(^{1}\) 32 respondents, 100% response rate.
\(^{2}\) 51 respondents, 40% response rate.
\(^{3}\) 78 respondents, 31% response rate.

**Conclusion**

This paper offers a model for curriculum development that is applicable to both clinical and educational programs. The curriculum described here has been effective in promoting understanding of occupation, interactions between people and their environments, problem solving, and critical thinking. Students who are educated within this curriculum demonstrate reflective, critical thinking and problem-solving skills grounded in an appreciation of occupation as central to human behavior. The qualities are congruent with the curriculum planners' mission to educate inquisitive practitioners and use of systems theory as a philosophical foundation for entry-level education.

**Appendix**

**Curriculum Competencies**

The following is a list of the program terminal competencies with corresponding semester goals and courses.

**Competency 1: Describe the Human Condition From a Variety of Perspectives**

1.1 Recognize how disease disrupts individual lives
1.2 Examine how people with disabilities adapt to disabling conditions
1.3 Demonstrate how various theoretical perspectives con-
4.7 Understand the transactional nature of person, culture, environment and the influence of each upon role performance
4.7.1 Identify psychosocial, environmental and developmental factors that influence a patient or caregiver's performance
4.7.2 Demonstrate proficiency in modifying occupations

Competency 5: Demonstrate Entry-level Clinical Proficiency in All Aspects of the Occupational Therapy Process
5.1 Analyze psychosocial, environmental, and developmental conditions and their effect on human performance considering work, self-care, and play
5.2 Evaluate individual performance in work, self-care, and play
5.3 Demonstrate understanding of theoretical rationale for the selection of treatment techniques
5.4 Select and implement appropriate treatment to promote individual performance and quality of life
5.5 Perform the following selected techniques:
   5.5.1 Interview individuals and their caregivers
   5.5.2 Evaluate patient strengths and weaknesses using observation and appropriate instruments
   5.5.3 Appropriate position, ambulate, and transfer individuals during treatment
   5.5.4 Construct splints and equipment if indicated
   5.5.5 Measure appropriate body functions and actions
   5.5.6 Document observations of individual capacities and limitations in concise, goal-directed statements
   5.5.7 Design and construct culturally relevant adaptations to modify the influence of the environment on performance
5.6 Establish holistic treatment goals and plans based on the individual's unique interests and needs in light of specific pathology and culture
5.7 Compare and contrast appropriate occupational therapy intervention for chronically disabled individuals
5.8 Apply entry-level knowledge and skills during treatment
5.9 Apply clinical reasoning concepts in goal-setting and treatment planning
5.10 Facilitate individual participation and investment in the therapeutic process
5.11 Apply entry-level knowledge and skills in the clinical setting
Competency 7: Integrate Occupational Therapy Professional Values and Attitudes That are Implicit in a Variety of Occupational Therapists' Roles Including Clinician, Educator, Administrator, Researcher, Clinical Specialist, and Master Clinician

7.1 Examine the socialization process of a developing occupational therapist
7.2 Analyze personal response to clinical issues and demonstrate ability to use self therapeutically
7.3 Understand the professional standards and ethics
7.4 Discuss the importance of the supervisory process
7.5 Demonstrate appropriate professional behaviors and attitudes

7.5.1 Demonstrate individual responsibility for continued learning
7.5.2 Recognize the value of documentation and validation of occupational therapy practice through research, publication, and program evaluation
7.6 Participate in the promotion of occupational therapy through professional organizations, governmental bodies, and human service organizations
7.7 Understand the structure and function of local, state, national, and international professional organizations

Competency 8: Demonstrate Entry-level Management Competencies Required to Adapt and Develop in a Complex and Changing Environment

8.1 Demonstrate an understanding of governmental regulation and fiscal policies as they affect the provision of occupational therapy services
8.2 Identify methods for evaluating occupational therapy services including quality assurance and program evaluation
8.3 Formulate and monitor a budget
8.3.1 Order supplies and equipment
8.4 Prepare and follow policies and procedures and job descriptions
8.5 Maintain equipment
8.5.1 Describe the organization of personnel management as they apply to occupational therapy assistants, staff occupational therapists, aides, and volunteers
8.6 Identify the importance of the supervisory process
8.7 Identify emerging arenas for occupational therapy practice and identify strategies for solving organizational problems
8.8 Demonstrate understanding of safety precautions and techniques

References


Cordelia Myers Writer’s Award

The American Occupational Therapy Association is pleased to announce that Loree A. Primeau has been chosen to receive the Cordelia Myers Writer’s Award for the 1992 AJOT volume year. Her paper, “A Woman’s Place: Unpaid Work in the Home,” published in the November issue, was considered by the AJOT Editorial Board members to be a strong piece of professional writing by a first-time contributor to the AJOT during the 12-month period.

The AJOT Editorial Board and staff extend their congratulations to Loree A. Primeau.