Psychology 3ZZ3

Interventions for Persons with Developmental Disabilities: Treatment Issues

2006

Joel Hundert, Ph.D., C.Psych., BCBA
905-570-0777
Fax: 905-570-0778
Email: hundert@mcmaster.ca

Nicole Walton-Allen, Ph.D., C.Psych., BCBA
416-251-9277
Fax: (416) 251-468
Email: NicoleWA@on.aibn.com

Thursdays 7:00 – 10:00 pm    BSB 137

COURSE OUTLINE

A. PURPOSES OF THE COURSE:

General Description: This course explores conceptual and applied issues pertaining to the adjustment of children and adults with developmental disabilities in community settings. Students will learn alternative approaches to the treatment of persons with developmental disabilities and evaluation of intervention outcome with an emphasis on a behavioural perspective. The goals of the course are:

1. To familiarize students with the theoretic, conceptual, and treatment issues pertaining to interventions for persons with developmental disabilities.

2. To enable students to discuss, criticize, and compare the theoretical, conceptual and applied issues under study.

3. To provide student with limited experiences in the treatment planning and delivery for persons with developmental disabilities.

Format
The course consists of 12, 3-hour lectures. With each lecture there are associated assigned readings. For topics not well covered by the readings in the text, extra readings will be assigned and held on reserve at Mills Library. Cue sheets of the important points in the readings can be found in this outline. There will also be periodic videos, or guest lecturers in the course. Some time will be set aside each lecture for
questions on the lecture or the readings. In addition, a Teaching Assistant will be available to aid students in the course material and will announce office hours during which they would be available.


C. **TOPICS**

Applied behavioural interventions - introductory topics
Applied behavioural interventions - advanced topics
Social skills training
Generalization and maintenance of effects
Instructional techniques
Psychopharmacology
Individual and group psychotherapies
Parent training
Staff training
School-based interventions
Dealing with dangerous behaviours (e.g., pica, self-injurious behaviours, violence)

D. **Grade Determination**

Mid-term exam - 30%
Summary of a paper – 10%
Final exam - 30%
Term paper / mini-practicum- 30%

E. **MID-TERM EXAM**

A mid-term exam will be given in class, pertaining to the content of the course covered in lectures and text until that point. The mid-term exam will consist of short-answer questions. The results will comprise 30% of the course final grade.

F. **SUMMARY OF A SCHOLARLY PAPER**

You will select a topic for your final paper from the following:

Supported inclusion of children with developmental disabilities

a) teaching social skills: social stories, social script training, classwide programs, peer-mediated approaches
b) teaching communication: Augmentative and Alternative Communication (PECS, sign language), incidental teaching of language
c) dealing with problem behaviours: positive behaviour supports, functional communication training
d) following routines independently: visual schedules, picture activity schedules, prompting and prompt-fading procedures
e) teaching children with developmental disabilities within a group: embedded instruction, individualized group instruction
f) teaching cognitive skills: perspective-taking, self-management, making inferences

Supported inclusion of adults with developmental disabilities

a) supported living
b) supported employment
c) supporting families with adult children at home
d) treating sex offenders

Other topics pertaining to the course subject matter may be selected with instructor permission. All topics must pertain to: a) treatment procedures demonstrated to be effective in scholarly articles; and, b) used with persons with developmental disabilities in an inclusive environment.

Please use the following format in your paper summary:

Authors: Smith, H. & Jones, A. K.
Title: The effect of reinforcement on speech-initiation of young children with Down Syndrome
Participants: Describe the number and characteristics of participants of the study
Setting: Describe where the study took place
Measures: Describe the measures that were used. How was the reliability of the measures demonstrated?
Design: Describe the research design that was used
Intervention: Describe the intervention that was used.
Implementer(s): Describe who implemented the intervention.
Designer(s): Describe who designed the intervention.
Results: Describe the main effects of the intervention and if generalization was assessed.
Contribution: In your opinion, what were the main contributions of this article to the research literature
Limitations: What were the main limitations of the paper.

This assignment is due at the beginning of class on March 2. Please hand in: a) your summary in hard copy; b) a copy of the paper you summarized in either hard copy or an electronic copy on a CD or 3.5 inch disc; c) a copy of your summary on the same CD or 3.5 inch disc. Please make sure that you place your name and student number clearly on your submissions.

The summary will be marked out of 100 and converted to a score out of 10% of your total grade. The marking will be as follows:
- General Lay-out – 20
- Description of Participants Setting and Measures – 20
- Description of and Design, Results, Intervention, Implementers, Designers – 20
- Contribution – 20
- Limitations - 20

A late penalty of 5% of your grade will be deducted for every day your submission is late.

G. FINAL EXAM

A 2-hour final exam will be given at the end of the course and will cover material presented both in the lectures and text from the point of the midterm. The final exam will consist of short-answer questions. The final exam is worth 30% of your total grade.

H. TERM PAPER / MINI-PRACTICUUM

There is a limited number of spaces for students to take a min-practicum pertaining to intervention with persons with developmental disabilities. Mini-practica may be provided by the course instructors or students may arrange their own placement with permission of the professors (see end of outline).
The mini-practicum will entail:

- A total of 20 hours of direct contact with the client, not including any training time.
- Students can find their own placement as long as it is approved by one of us. The placement must be at a setting in which students can be supervised in the implementation of an assessment plan. Please recognize that you are to conduct yourself with utmost professional respect and courtesy. Also, you are to maintain the strictest confidence about the individual with whom you are working.
- For those needing our approval, please submit the following brief description found at the end of this course outline.
- Also note that at the end of this outline is a form that explains the expectations to potential hosts of your placement and a waiver of liability.
- Please keep track of the dates and times of your placement and include that information in the method section of your paper.
- You will submit at least a 7-page, double-spaced paper on the results of your placement.
- Include at least 4 recent research articles to support the points you raise in your paper.

The write-up of the mini-practicum should be under the following headings:

- **Introduction** (describe the setting, the person, presenting problem, history of treatment, research supporting particular, etc.)
- **Method** (describe your involvement, list the dates and times of your placement, describe the assessment method, any problems encountered).
- **Results** (collect data on the effect of the treatment on the person. The results are to be described in the body of the paper and to be supplemented by charts or graphs.)
- **Discussion** (discuss your conclusions about your placement, what was the benefit for the client, for you, what were your main learnings, what would you suggest for future attempts of helping the client)

Include in your introduction at least 5 references from scholarly sources. You must use American Psychological Association format in the paper. In particular, follow the rules for citation in text and for listing your references.
Marks for the mini-practicum will be based on the thoroughness and logical flow of the ideas, synthesis of information, and writing style as follows:

- Introduction: 20 marks
- Method: 30 marks
- Results: 30 marks
- Discussion: 20 marks.

**Term Paper.** The term paper would be a scholarly report of an empirical, but applied question pertaining to assessment of persons with developmental disabilities. See the topics listed under “F: A Summary of A Scholarly Paper” (pg. 3). The paper should be at least 15 double-spaced, pages. You should use at least 8 scholarly articles to support the points you raise in your paper. Discuss the treatment issue, what treatment approaches have been used, their relative efficacy, limitations, advantages and recommendations to the field for: (i) future research; (ii) implications for practitioners in the field. You must use American Psychological Association format in the paper. A copy of the APA guidelines should be available in the library or bookstore. The paper will be marked as follows:

The term paper will be graded for quality in the following areas:
- Development of ideas/synthesis and analysis - 25%
- Logical flow/Organization - 25%
- Thoroughness - 25%
- Writing style/APA format - 25%

Both the mini-practicum and the term paper are due the last day of classes in class. Five marks will be deducted for each day the paper is late.

**H. COURSE SCHEDULE**

1. **January 5**
   - **LECTURE:** Applied behavioural interventions - introductory topics (JH)
   - **Video:** on ABA with children with autism
   - **READING:** Chapter 26

2. **January 12**
   - **LECTURE:** Applied behavioural interventions - advanced topics (NWA)
January 5, 2006

READING: Chapter 27

3. January 19
LECTURE: Social skills training (JH)
Video - Classwide Social Skills Training
READING: Module 9.1: Promoting Peer Interaction

4. January 26
LECTURE: Generalization and maintenance of effects (NWA)

5. February 2
LECTURE: Interventions for children with autism (JH)
READING: Chapter 20

6. February 9
LECTURE: Psychopharmacology (NWA)
Video
READING: Chapter 25

7. February 16: Mid-Term Exam

February 22: MID-TERM RECESS

8. March 2
LECTURE: Individual and group psychotherapies (NWA)
Paper summaries due
READING: Chapter 28

9. March 9
LECTURE: Parent training (JH)
READING: Chapter 21, 22

10. March 16
LECTURE: Staff training (NWA)
READING: Chapter 29

11. March 23
LECTURE: School-based interventions and instructional techniques (JH)

12. March 30
LECTURE: Dealing with dangerous behaviours (e.g., pica, self-injurious behaviours, violence) (NWA).
Review of lectures and readings from Mid-term
Term Papers due
READING: Module 5.2: Dealing With Difficult Behaviours

I LECTURE OVERHEADS

Copies of the lecture overheads will be posted on the web at: http://home.cogeco.ca/~binstitute. We shall update the overheads on the day of the lecture.

J MISCELLANEOUS

Details of the course requirements may be subject to change. If so, students will receive a revised course outline.

Message from the Chair - The instructor cannot be responsible for returning long distance calls from students. Any student wishing to reach an instructor is invited to e-mail the instructor.

Policy Reminder - Attention is drawn to the "Statement on Academic Ethics" and the "Senate Resolutions on Academic Dishonesty" as found in the Senate Policy Statements distributed at registration and available in the Senate Office. Any student who infringes one of these resolutions will be treated according to the published policy.

Marking - The instructor reserves the right to adjust final marks up or down, on an individual basis, in the light of special circumstances and/or the individual's total performance in the course. A percentage marking system will be used. The course mark will be converted to a letter grade by the Registrar's office using the Senate-approved, standard scale.

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K. Reading Cues

The following are cues for each of the readings to suggest what is important to learn. Any questions on the exam will be based on these cues.

Chapter 20: Cognitive and Vocational Interventions

- Pg 266 What is taught to students with severe to moderate MR
- Pg 267 How are new responses taught?
- Pg 270 Where does teaching occur?
- Pg 271 What is taught to students with mild MR
- Pg 273 How are new responses taught?
- Pg 275 Where does teaching occur?

Chapter 21: Families Coping with Mental Retardation

- Pg 280 How does family life cycle apply to families with a child with mental retardation?
- Pg 281 Describe how families with a child with mental retardation are at heightened risk for depression.
- Pg 282-284 Describe how a family assessment is conducted.
- Pg 285-286 Describe the existential and reality crisis facing families.

Ch 22: Parent Training

- Pg 289-293 Describe how parent training has been conducted with families with a child with mental retardation.
- Pg 293 Which families benefit most from parent training?
- Pg 295 Is there a critical period for parent training?
- Pg 296 Describe the issue of father involvement.
- Pg 296-299 Describe strategies to promote generalization of effects of parent training.

Chapter 25: QUESTIONS FOR CHAPTER 25: PSYCHOPHARMACOLOGY

- Page 323 What are the factors that have hindered the effective use of psychopharmacological treatments for people with mental retardation?
- Page 324 How do the authors recommend the use of a risk benefit on intrusiveness analysis for drug treatment?
- Page 236 Define polypharmacy? What is minimal effective dose procedure?
Page 328: Describe procedures for monitoring and assessment drug treatment effects including clinical hypothesis testing, extra target symptom measures, dosing, regimen and drug blood levels and evaluation instruments.

Page 330: Describe the general purpose informant?? scales presented.

Page 334: Describe monitoring and assessing of first drug effects and compare the alternative treatments.

Page 336: Describe the efficacy of psychotropic medications for antipsychotics and antidepressants, Anxiolitics, Mood stabilizing agents, stimulants, opiate antagonists, beta blockers, Fenfluramine, Clonidine

Chapter 26: Applied Behavioral Interventions

Pg 341. Learn the focus of applied behavioral interventions. Measurement techniques are either continuous or discontinuous.

Pg 342. What is functional analysis.

Pg 343. Describe the Axelrod et al. (1993) model.

Pg 345. Describe positive reinforcement, shaping.

Pg 346. Define stimulus control, stimulus fading, stimulus shaping, overselection.

Pg 348. What is the least restrictive treatment model? Define DRA, DRO, DRL.

Pg 348. Describe functional communication training.

Pg 349. Define extinction and its secondary effects.

Pg 350. Define the punishment procedure presented.

Pg 351. Define stimulus and response generalization.

Pg 357. Describe the multimodal functional approach.

Pg 359 - 361. Describe steps 1, 2 and 3.

Pg 361. What is the benefit of identifying an individual's coping skill deficits?

Pg 364. What is the difference between a skill deficit and a performance deficit?

Pg 366. Describe how competing behaviours and competing emotional arousal were treated.

Ch 27: Behaviour Therapies

Pg 371. What erroneous assumptions and biases have hampered the availability of counselling for people with mental retardation?
In what ways can counselling techniques be modified?

Describe a directive style and how it should be used with people with mental retardation.

How does transference and countertransference play themselves out with people with mental retardation.

Chapter 29: Management and Organizational Issues

What are the main areas of responsibility for psychologists working with people with developmental disabilities.


Why should one program for generalization?

Describe the 9 generalization strategies.


What is positive behaviour supports and the suggested 4 central messages.

Describe functional assessment

How behaviour support should be comprehensive.

The unit of intervention

Modules 5.2 and 9.1 are from the training for the Autism Initiative and all content is relevant.
MINI-PRACTICUUM APPROVAL

Student name ___________________  Student number ___________
Describe the setting _____________________________________________
________________________________________________________________
________________________________________________________________
________________________________________________________________
Describe the person with whom you will be working _____________________
________________________________________________________________
________________________________________________________________
Who will be supervising you in the implementation of the program
________________________________________________________________
Days and times of placement _______________________________________
________________________________________________________________

I understand that I must undertake an assessment of a person with developmental disabilities using one or more of the techniques covered in the course. I understand that I must submit a paper of at least 10 double-spaced pages containing the results of my assessment.

________________________________________________________________

STUDENT NAME: _______________________________________

YES I APPROVE OF THE PLACEMENT _________________________________

NO I DO NOT APPROVE OF THE SETTING FOR THE FOLLOWING REASONS ___________
________________________________________________________________
________________________________________________________________
Dear Potential Placement Provider:

This is the description of the expectations for students seeking a mini-practicum in the McMaster University Psychology course 3z03, Assessment of Persons with Developmental Disabilities. The course is introducing 3rd year psychology students to conceptual and practical issues of assessment of this population. In the mini-practicum, it is expected that the student get permission to participate with children or adults with developmental disabilities in a natural setting. The activities you set up for the student should be ones in which the student is directly interacting with the person with developmental disabilities and collecting some type of objective information.

It is expected that the student submit a 10-page, double-spaced paper on the case study with support literature. The minimum number of student time to commit is 20 hours.

Obtaining signed consent, oaths of confidentiality, etc. is the responsibility of the placement. Please ask the student to sign the enclosed waiver indicating that the placement is not responsible for any mishap that may happen to the student.

Joel Hundert Ph.D., C.Psych.
Associate Professor of Psychiatry, McMaster University
Behaviour Institute
57 Young St.
Hamilton, Ontario
L3P 1V1
(905) 570-0777
FAX: (905) 570-0778
hundert@fhs.mcmaster.ca
WAIVER

I understand that ___________________ is not responsible for any personal injury, property loss / damage or other mishap that I might suffer during my volunteer work from _______________ to _______________. I have been informed of any potential hazards by the agency.

Student name _____________________________
Address __________________________________
Telephone number _________________________

Date ____________________________

____________________________________