Learning Objectives
In completing the self-management project, you will:

1. Apply the principles and procedures of behaviour modification.
2. Engage in a unique hands-on experience which is beyond the scope of the lectures.
3. Further develop your scientific research and writing skills.
4. Improve your life by changing an important behaviour.

Requirements
Each part of the project must be submitted online using eClass. Answers to each part of the assignment must not exceed 400 words (approximately the equivalent of one double-spaced page), or you will be penalized 1 mark. Use complete sentences; do not use point form. It is your responsibility to ensure that your assignment has been properly submitted. You should receive a confirmation email as soon as your submission is successful. Assignments submitted without appropriate data (when required) will be considered incomplete, and will be penalized for lateness if not submitted with data on time. Keep a copy of your answers to each part of the assignment on your computer: in the final part, you will be asked to submit your answers to all five parts.

Marks
Each assignment consists of a number of questions. Some assignments also require a line graph, which is worth additional marks. Marks are assigned based on the completeness, relevance, and specificity of your answers. If your answer is incomplete, irrelevant, vague, or is lacking detail, marks will be deducted. Half-marks are assigned at the discretion of the teaching assistant. A scoring rubric is attached to the end of this document.

Do not copy your answers to the questions from any other source (e.g., journal article, textbook, lecture notes, website, etc.). This is plagiarism; you will receive a mark of zero, and you will be prosecuted under the terms of the Code of Student Behaviour.

Deadlines & Late Policy
Each assignment must be submitted by the end of class time (not at midnight) on the day in which it is due, or it will be considered late. Late assignments will lose 1 mark per 24-hour period, starting immediately after class is over. That is, if you submit your assignment 1 minute after class is over, you will lose 1 mark. If you submit your assignment 23 hours and 59 minutes after class is over, you will still lose only 1 mark. But if you submit your assignment 24 hours and 1 minute after class is over, you will lose 2 marks.

If you edit or make any changes to your eClass submission in any way after the deadline, you will receive a late penalty.

Do not email assignments to the instructor or the TA. Late (or early) assignments may be submitted via eClass. However, after 6 days past the deadline, you will no longer be able to submit your assignment online. If you have exceptional extenuating circumstances (e.g., you cannot submit your assignment because your arms have fallen off, or you were abducted by aliens), please contact the instructor.
Exit Protocol
Should you begin, but be unable to complete the self-management project (e.g., your target behaviour is exercise and you injure your knee), or if you have ethical concerns about your project, stop your treatment plan immediately and contact the instructor.

Research
Parts II and IV of this project require doing secondary research; that is, finding, evaluating, and briefly summarizing primary research articles that support your position. Do not take this lightly—doing research is an important scientific skill (also, marks are assigned based on the quality of evidence that you provide). A powerful tool that can help you find appropriate research is the PSYCInfo® database (here is a brief tutorial); however, many behaviour modification-specific articles are indexed by PubMed and PubMed Central®. To help guide you through the research process, the University of Alberta Libraries’ Psychology subject guide is recommended. The research process will also be explained in more detail in lectures.

APA Style
You may be familiar with Modern Language Association (MLA) style, often used for high school or English papers. Style guides are about the design of documents, and the mechanics of writing, such as punctuation, quotation, and documentation of sources. However, many psychology papers and scientific journals require American Psychological Association (APA) style. APA style dictates things like fonts, spacing, margins, etc., but more importantly explains how to support claims with evidence, and how to clearly differentiate between your ideas and those of others—this helps to prevent plagiarism.

If you have drawn on an outside source of information (e.g., an article in a scientific journal) to support a claim you make, you must cite it and provide a complete APA style reference. This is an example of an APA style in-text citation: (Hershlag, Hurley, & Woodward, 1998). This is an example of an APA style reference: Hershlag, N., Hurley, I., & Woodward, J. (1998). A simple method to demonstrate the enzymatic production of hydrogen from sugar. Journal of Chemical Education, 75, 1270-1274. doi:10.1021/ed075p1270

Some elements of APA style will be covered in lectures. Here are some free online APA style resources:
- The American Psychological Association’s (limited) free information online
- The Purdue Online Writing Lab’s overview and information on APA formatting and style
- The University of Alberta Libraries’ APA Citation Style subject guide.

Note: Not all parts of the assignment require citations to relevant research. Also, to submit some parts of the assignment, you will use a text box in eClass, which does not permit certain kinds of APA formatting (e.g., fonts, spacing, margins, etc.).

Alternate Assignment
If you have a compelling reason not to do this self-management project, an alternate assignment may be provided. You must make arrangements with the instructor before Part I of the assignment is due.

Technical Support
“Technical problems” will not be accepted as an excuse for a late or incomplete assignment. IST eClass Support has Using eClass for Students tutorials, ranging from System Setup to Submitting Assignments. For help with eClass, see IST’s eClass support knowledgebase or contact IST eClass support. For other IT problems, contact IST.

It is strongly recommended that you make backups of your answers to each assignment part (and your data). “My computer crashed” is not an acceptable excuse for a missing, incomplete, or late assignment. Google Docs is your friend.
Target Behaviour
In this assignment, you must decide on the behaviour you wish to change. (For the purposes of this self-management project, it is assumed that you will be observing your own behaviours, and that you will be using direct assessment.) There are two kinds of behaviour change: Decreasing an undesirable behaviour, and increasing a desirable behaviour.

Below are some examples of undesirable behaviours that you may wish to extinguish or weaken. You are not required to choose one of these; you are encouraged to come up with a unique, personally relevant target behaviour! You should choose a behaviour that is typically performed on a daily (not weekly) basis.

- eating snacks/junk food
- smoking
- being a shopaholic (however, Compulsive Buying Disorder (CBD) is a psychological disorder)
- watching television/web surfing
- biting your nails/pulling your hair
- avoiding social situations

Here are some examples of desirable behaviours that you may wish to establish or strengthen:

- eating healthy food
- being punctual
- saving money
- studying
- exercising
- talking to new people

For example, you may wish to spend less time on your Xbox (decreasing an undesirable behaviour) and spend more time studying (increasing a desirable behaviour). For the purposes of this assignment, you must designate one of these as your target behaviour—not both. You should probably choose the behaviour that is most important to you to change.

For ethical reasons, you are not permitted to deal with any of the following:

- another person’s behaviours (this is a self-management project)
- animals (e.g., an assistance dog, therapy animal, pet orangutan, etc.)
- anything that contravenes the Code of Student Behaviour
- any illegal activity, or any behaviour involving illegal substances (e.g., illicit drugs, plutonium, etc.)
- drugs, alcohol, herbal remedies, or prescription medications
- behaviours of a sexual nature
- abuse or neglect
- infringing on another’s human rights
- time travel
- weight loss (this is not a behaviour; neither is “getting rich” or “being famous”)
- phobias
- psychological disorders (e.g., anxiety, depression, eating disorders, etc.)
- medical conditions (e.g., heart disease, diabetes, happy puppet syndrome, etc.)

(If you believe that you have a serious medical or psychological problem, please seek appropriate help in dealing with it. Resources on campus include University Health Centre, Counselling & Clinical Services, and Peer Support Centre.)

Be careful to choose voluntary behaviours (e.g., going to bed), not autonomic responses (e.g., sleep).
Behavioural Treatment Program

Your behavioural treatment program must be based on the principles and procedures that you learn in this course. Essentially, self-management can be done using two kinds of manipulations. You can change the antecedents that evoke a behaviour, or change the consequences that follow a behaviour. These procedures can be applied either to increase a desired behaviour, or to decrease an undesired behaviour. (If you are decreasing an undesired behaviour, you may need to also consider what desirable behaviour will replace it.)

The following examples of behaviour change procedures are explained in the textbook (Miltenberger, 2016). These procedures may not necessarily be covered in the lectures or the assigned readings by the time your treatment plan is due to be submitted, but you are strongly encouraged to read ahead:

Antecedent manipulations:
- Present discriminative stimulus (S\textsuperscript{D}) or cues for the desirable behaviour
- Eliminate S\textsuperscript{D} or cues for the undesirable behaviour
- Arrange establishing operations (EOs) for the desirable behaviour
- Present abolishing operations (AOs) for the undesirable behaviour
- Decrease response effort for the desirable behaviour
- Increase response effort for the undesirable behaviour

Consequence manipulations:
- Provide reinforcers for the desirable behaviour
- Eliminate reinforcers for the undesirable behaviour
- Eliminate punishers for the desirable behaviour
- Provide punishers for the undesirable behaviour

Although you may use more than one of these manipulations at the same time to increase effectiveness, this can result in a more complex behavioural treatment program.

You are not required to perform a functional analysis of your behaviour in this project.

You should not apply formal psychotherapy (e.g., CBT, etc.).

The Fine Print

The University of Alberta is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Code of Student Behaviour and avoid any behaviour which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence.

Academic dishonesty is a serious offence and can result in suspension or expulsion from the University. These resources from Student Conduct and Accountability, and the University of Alberta Libraries can help:
- Plagiarism
- Citing, Quoting, Paraphrasing & Summarizing (What is paraphrasing?)
- Foundation Tutorials: Citing
Assignments

Part I: Target Behaviour (6 marks) -- due Monday, September 16
Submit this assignment using the text box in eClass. Clearly indicate (and separate) your answers to questions 1 and 2. Remember to keep a copy of your answers; you will need them in subsequent assignments. You are allowed a maximum of 400 words.

1. What is your target behaviour? Be sure that it is clearly and fully defined, and that there are no “loopholes.”
   Is this an undesirable behaviour that you wish to decrease, or a desirable one that you wish to increase?
   Keep in mind that you will have to justify your choice of behaviour in Part II: Ethics. Do not give your
   behavioural goal; you will provide this in Part IV: Treatment Plan. (3 marks)

2. What dimension(s) of the target behaviour are you going to record (e.g., frequency, latency, duration, etc.)?
   Briefly explain your reason for choosing your measure(s). How will you measure and/or record your target
   behaviour? Provide an operational definition. Keep in mind that you will have to record and graph this data
   for Part III: Baseline Phase and Part V: Treatment Phase. (3 marks)

Part II: Ethics (7 marks) -- due Monday, September 30
Submit this assignment using the text box in eClass. Include your answers to Part I of your self-management
project when submitting Part II, making any changes to Part I as required. The text box will accept a maximum of
800 words (i.e., up to 400 words for your answers to Part I plus up to 400 words for your answers to Part II). It is
not possible to apply certain aspects of APA style in the text box (e.g., hanging indents), and are thus not required.

1. Provide evidence that changing your target behaviour is beneficial. Cite and briefly summarize a research
   article supporting your choice of target behaviour. You must provide one properly formatted APA style
   reference to a primary source (a peer-reviewed research article) or high-quality secondary source (a
   systematic literature review or meta-analysis), not a random website, magazine article, or something else
   that Google barfed up). If you cannot find evidence that your target behaviour is beneficial (e.g., “exercise is
   good”), then you may provide evidence that not doing your target behaviour is harmful (e.g., “not
   exercising is bad”). (6 marks)

2. What are the downsides to modifying your target behaviour? Are there any potential dangers to you or to
   other people (for example, in applying punishment to reduce an undesirable behaviour)? If you are
   planning to exercise more or change your diet, have you consulted with and received approval from your
   physician? Consider potential unintended consequences or perverse incentives. (1 mark)
**Part III: Baseline Phase (8 marks) -- due Monday, October 21**

Collect and record baseline data in real-time for 14 days. (Do NOT begin filling out data sheets at the end of the observation period; each response should be recorded as soon as possible after it occurs.) Using an **ABC observation data sheet** is strongly encouraged. Along with your answers to the questions below, include a one-page sample of your data sheet and a line graph of your behaviour. You **must** include these, or your submission will be considered incomplete and will not be marked until you submit them; late penalties will apply.

If your target behaviour never occurs during baseline, record the behaviours that occur instead of it. The textbook describes **ABC observation data sheets** in chapter 13; also see the **online links** (there are links to help with graphing, as well). Note that each target behaviour or dimension you are recording will require a separate graph. (2 marks)

Submit this assignment by uploading a single PDF file in **eClass**. (Here’s how to create a PDF file in **Word** (Windows), **Word** (MacOS), **other MacOS apps**, **LibreOffice**, and **Google Drive/Docs**.) Do **not** submit a title page or abstract; do **not** double-space. Remember to include your answers to Part I again as well.

1. What are the antecedents of your target behaviour, in general? That is, what stimuli precede it? For example, what situations, locations, or times of day precede your target behaviour? (If your target behaviour never occurred during baseline, consider the antecedents of the behaviour(s) that occurred instead of it. For example, feeling tired, then watching TV instead of studying.) Be sure to fully categorize all types of antecedents, as described in lectures. (3 marks)

2. What are the consequences of your target behaviour, in general? That is, what are the results of your target behaviour? For example, what consequences are supporting your undesirable behaviour? (If your target behaviour never occurred during baseline, consider the consequences of the behaviour(s) that occurred instead of it. For example, watching TV makes you feel relaxed.) Be sure to fully categorize all types and forms of the consequences as described in lectures. (3 marks)

**Part IV: Treatment Plan (8 marks) -- due Monday, November 4**

Decide on a behaviour change procedure. Although you may apply more than one procedure, only the first one you present will be assessed for marks. Submit this assignment using the text box in **eClass**. Include your answers to Part I again. The text box will accept a maximum of **800 words**. Do **not** resubmit your baseline data.

1. What specific treatment or behaviour change procedure(s) (e.g., antecedent control procedures, kind of reinforcement, etc.) do you plan to apply to your target behaviour? Describe how you will apply this in general to your target behaviour, and explain why you chose this procedure. (3 marks)

2. Provide support for your decision by briefly describing, citing, and referencing (in APA style) a primary source (research paper) that supports your choice. It would be **ideal** to find a published study applying the specific behaviour change procedure you selected to your specific target behaviour, but this may be difficult to find. The next best thing would be to find a published study that has successfully applied the behaviour change procedure that you will be using (e.g., increasing response effort for an undesirable behaviour), to some other target behaviour. (4 marks)

3. What is your behavioural goal for your target behaviour? That is, describe what level you would realistically like your behaviour to reach by the end of the treatment phase. (1 mark)
Part V: Treatment Phase (9 marks) -- due Monday, November 25
Implement the behaviour change procedure that you developed in Part IV. Collect and record treatment data in real-time for 14 days. Along with your answers to the questions below, include a one-page sample of your data and a line graph of baseline and treatment phases. You must include these, or your submission will be considered incomplete and will not be marked until you submit them; late penalties will apply. (3 marks)

Submit this assignment by uploading a PDF file in eClass. No title page or abstract is required; do not double-space. Also, include all your answers to Parts I-IV; do not include data sheets from Part III.

1. Was your self-management successful? That is, did you meet the behavioural goal you described in Part IV? Was there a clear change in your target behaviour from the baseline to the treatment phase? Explain what changed. (If there was no change, discuss the possible reasons why.) (3 marks)

2. How would you change your treatment if you were to continue this self-management project, and why? For example, would you implement an A-B-A design, or A-B-C, and why? Or, how would you promote generalization or maintenance? Or fading? Although you may propose more than one procedure, only the first one you present will be assessed for marks. (3 marks)
**Scoring Rubric**

This rubric is intended to provide a general sense of how student answers are differentiated, scored, and resulting marks awarded. Due to the huge variability of project topics and approaches, it is impossible to provide specific guidelines for how each question is marked. Therefore, this rubric is provided not as the final word on marks, but for information purposes. If there is any discrepancy between this rubric and the marking guide, the marking guide will supersede this rubric.

**Part I: Target Behaviour (3+3 marks)**

1. Complete, precise definition: 1 mark.
   - Definition has no loopholes: 1 mark.
   - Nature and direction of behaviour change specified: 1 mark.
2. Appropriate measure of target behaviour, correctly applied: 1 mark.
   - Appropriate terminology, correctly applied: 1 mark.
   - Appropriate operational definition, correctly applied: 1 mark.

**Part II: Ethics (4+2+1 marks)**

1. Providing and summarizing one article of high-quality empirical evidence (primary source, review, or meta-analysis) that appropriately justifies the target behaviour, and citing it in APA style: 4 marks.
   - Source is inadequately or not appropriately summarized: -1 mark.
   - Providing weak or poor quality evidence (e.g., secondary source): -1 mark.
   - Source does not support target behaviour: -1 mark.
   - Source is not cited in APA style: -1 mark.
   - Providing irrelevant or inappropriate evidence: 0 marks.
   - Source is provided in correctly formatted APA style reference: 2 marks. (Deductions will be applied for violations of APA style.)
2. Fully considering downsides, unintended consequences, and/or perverse incentives: 1 mark.
   - Incomplete assessment of downsides or risks: 0 marks.
   - Lack of consultation with physician, and/or lack of healthcare assessment (if applicable): 0 marks.

**Part III: Baseline Phase (2+3+3 marks)**

No data provided: 0 marks for all of Part III.
- All appropriate components of line graph are included: 2 marks.
- Components of graph missing: -½ mark each.
1. Clear description of antecedent conditions, using all appropriate terminology: 3 marks.
   - General description of antecedents lacking: -1 mark.
   - Types of antecedent conditions not specified: -1 mark each.
   - Vague, incomplete, or inappropriate descriptions of antecedents: 0 marks.
2. Clear description of consequences; type and form specified using appropriate terminology: 3 marks.
   - General description of consequences lacking: -1 mark.
   - Type of consequences not specified: -1 mark.
   - Form of consequences not specified: -1 mark.
   - Vague, incomplete, or inappropriate descriptions of consequences: 0 marks.
Part IV: Treatment Plan (3+2+2+1 marks)
1. Describing specific treatment plan applied correctly using appropriate terminology, with supporting explanation: 3 marks.
   Inappropriate behaviour change procedure, or incorrectly applied: -1 mark.
   No terminology provided, or incorrectly used: -1 mark.
   No explanation or rationalization of treatment plan: -1 mark.
   Vague, incomplete, inappropriate, or incorrect description of treatment plan: 0 marks.
2. Appropriate application of behaviour change procedures to target behaviour, supported by description of relevant source cited in APA style: 2 marks.
   Source is inadequately or not appropriately described: -1 mark.
   Source is not cited in APA style: -1 mark.
   Providing irrelevant or inappropriate evidence: 0 marks.
   Source is provided in correctly formatted APA style reference: 2 marks. (Deductions will be applied for violations of APA style.)
3. Description of achievable behavioural goal stated in terms of the target behaviour and measure: 1 mark
   Goal is lacking quantitative measure: -½ mark.
   Goal is inappropriate, not measurable, or does not match behaviour: 0 marks.

Part V: Treatment Phase (3+3+3 marks)
No data provided: 0 marks for all of Part V.
All appropriate components of line graph are included: 3 marks.
Components of graph missing: -½ mark each.
1. Correct and appropriate assessment of goal and behavioural change: 3 marks.
   Lack of appropriate assessment of behavioural change: -2 marks.
   Lack of correct assessment of goal: -1 mark.
   Incorrect or missing assessments of goal and behavioural change: 0 marks.
2. Correct, specific application of procedures of generalization or maintenance, or other appropriate principle of behaviour modification: 3 marks.
   Application of behaviour modification procedures, but lacking appropriate terminology: -1 mark.
   Incorrect, vague, or incomplete application of behaviour modification procedures: -2 marks.
   Lack of appropriate application of behaviour modification: 0 marks.