The 3-DAY marathon plan

WORDS BY AMBY BURFOOT
LIMMY BREHM HAD COMPLETED FOUR MARATHONS, WITH A BEST TIME of 3:51. He wanted to run faster. Andy Goodwin had finished two marathons, with a best of 3:21, and he wanted to get faster too. Kim Halley had run two marathons 10 years ago, then had her first baby. She simply wanted to get back in shape, and to finish another marathon. All three runners achieved their goals last December at the Kiawah Island Marathon. So did 18 others. The 13 veterans among those 21 runners improved on their most recent times by almost 20 minutes. Even more remarkably, they did so with a daring new marathon-training programme from Furman University in the USA.

Daring because it defies the conventional wisdom. Daring because it limits participants to just three running workouts a week. And daring, in the extreme, because it tells runners they'll get faster on fewer workouts. “Train Less, Run Faster” - you've heard the refrain before. It's a long-time favourite of snake-oil coaches with credentials from Charlatan University.

Of course, real runners know that to get faster, you have to log more mileage and run intervals until your rear end is dragging on the track behind you. Not this time. This time the “Train Less, Run Faster” claim is backed by the experiences of real runners who followed the programme and got results. This time it’s backed by scientist-runners with advanced degrees in physical education and exercise physiology. This time, you should give the programme a try. It just might work for you.

GETTING TO FIRST

The Furman Institute of Running and Scientific Training (FIRST) marathon programme was born, in a sense, when Bill Pierce and Scott Murr decided to enter a few triathlons way back in the mid-1980s. Just one problem: They hit the wall when they added biking and swimming to their running. The demands of three-sport training were too much, so they cut back their running from six days a week to four.

To their surprise, they didn't slow down in local road races. So they cut back to three days of running. “Lo and behold, our race times didn’t suffer at all,” says Pierce. “The more we discussed this, the more we became convinced that a three-day programme, with some cross-training, was enough to maintain our running fitness.”

Pierce, chair of Furman’s Health and Exercise Science department, has run 31 marathons, with a best of 2:44. At 55, he still manages to knock out a 3:10 by practising what he preaches: Running three workouts a week. While Pierce has retired from triathlons, Murr, 42, with a doctorate in exercise physiology, still wants to complete another Hawaii Ironman, having already done five. He has run a 2:46 marathon, also on three runs a week.

Pierce’s and Murr’s discussions, and personal successes, amounted to little more than that until early 2003, when Pierce got university permission to form FIRST. “It helped,” he notes with a smile, “that I didn’t ask for any funding.” By that time, he had assembled a team of four FIRST co-founders, including Murr,
**THE 3-DAY MARATHON PLAN**

**THE FIRST TRAINING PLAN**

The FIRST marathon programme includes three running workouts per week – a speed workout, a tempo run and a long run. Here’s the full 16-week marathon training programme. Participants are also encouraged to cross-train for 40 to 45 minutes on two other days per week.

<table>
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<th>WEEK</th>
<th>TUESDAY Speed</th>
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<td>16</td>
<td>30min easy with 5x60sec</td>
<td>20min easy with 4 pickups</td>
<td>Marathon</td>
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**THE FIRST PACES**

The training paces recommended by the FIRST programme are somewhat faster than those recommended by other training plans, but you should be well rested for each workout. Here are the paces you’ll need to run, each expressed relative to your current 10-K race pace.

- **LONG RUN**: 10-K pace + 38 to 45 seconds/mile
- **LONG TEMPO**: 10-K + 18 to 22 seconds
- **MID TEMPO**: 10-K + 9 to 12 seconds
- **SHORT TEMPO**: 10-K pace
- **1600M REPEATS**: 10-K - 22 to 25 seconds
- **1200M REPEATS**: 10-K - 25 to 28 seconds
- **800M REPEATS**: 10-K - 28 to 32 seconds
- **400M REPEATS**: 10-K - 34 to 38 seconds

Furman exercise physiologist Ray Moss, and former Greenville Track Club president Mickey McCauley.

In the autumn of 2003, FIRST launched its training programme. Applicants were told they would have to undergo pre- and post-programme physiological testing in Furman’s Human Performance Lab, and run three very specific running workouts each week. There were no restrictions on additional running or cross-training workouts, and there was no ‘final exam’ test race.

The lab tests showed that subjects had improved their running economy by 2%, their maximal oxygen uptake by 4.8% and their lactate-threshold pace by 4.4%. In other words, the three workouts had led to better fitness and race potential. FIRST was off and running.

Fast-forward to 2004. FIRST advertised a free marathon programme that would last 16 weeks and culminate with the Kiawah Island Marathon in December. To enter the programme, you had to be able to run 15 kays. Participants also had to agree to lab testing, and promise not to run more than three days a week. In other words, this time the programme came with a clear running restriction. Partially as a counterbalance, participants were encouraged to do two additional days of cross-training, such as bicycling, strength training, rowing or elliptical training.

From about 50 applicants, FIRST selected 25 subjects (17 with past marathon experience), including engineers, accountants, managers, sales execs, teachers, a nurse, an attorney and a physician. They began training in August with individualised workouts that Pierce calculated from the lab testing and a questionnaire. Each participant ran just three days a week, doing one long run, one tempo run and one speed workout. They trained on their own, in their own neighbourhoods, according to their own schedules.

In December, 23 of the original 25 ran at Kiawah. One had dropped out of the programme because her house flooded, and one because of injury. “I had expected that we would lose at least five runners to injuries,” says Pierce, “so I was very happy with this outcome. It seemed to prove that our workouts, which were harder than most of the runners were accustomed to, didn’t lead to a rash of injuries.”

Two participants dropped down to the half marathon, because they had developed minor injuries during training, but recovered in time to attempt the shorter distance. Both finished the 21-kay with good performances. That left 21 FIRST marathoners on the starting line. How did they do? All 21 finished, with 15 setting their personal bests. Four others ran faster than their most recent marathon.”
personal bests. Four of the six who didn’t set PBs ran faster than their most recent marathon.

“It was so exhilarating to watch them come in, and it was quite a relief too,” says Pierce. “When you’re responsible for 21 people who cut back their marathon training because you told them to, well, that can make you a little nervous.”

What’s more, as post-race lab testing showed, the FIRST participants had improved their maximal oxygen uptake by an average of 4.2% and their lactate threshold pace by 2.3%. Bonus: They also reduced their body fat by an average of 8.7%.

“We think the results show that our programme was a big success,” says Pierce. “Our people didn’t get hurt, and most ran their best-ever marathon. I think we showed that you can teach people to train more efficiently.”

BE A FIRST-TIMER

Official participants in Furman’s marathon programme undergo lab testing, attend monthly meetings and receive individualised advice, and sometimes even daily e-mails. But anyone can adapt and use the programme’s basic principles. Just follow the eight rules below, and the 16-week FIRST training plan (p.46).

For more info, check out www.furman.edu/FIRST.

1 Run Efficiently, Run for Life

Bill Pierce is a tough, performance-oriented guy, but he insists on explaining the FIRST programme from a fitness and philosophical perspective. He believes that a three-day running week will make running easier and more accessible to many potential runners and marathoneers. It will also limit overtraining and burnout. Finally, with several days of cross-training, it should cut your injury-risk substantially. This may lead to faster race times. More importantly to Pierce, it adds up to a programme that many time-stressed people can follow healthily for years.

“Our most important objective is to help runners develop and maintain lifelong participation in running,” says Pierce. “Our second goal is to help them achieve as much as possible on a minimum of run training.”

2 Run Three Times a Week… And No More

This is the centrepiece of the entire FIRST programme. FIRST runners do only three running workouts a week. This decreases the overall time commitment of the programme and the risk of injuries - important considerations to many runners. And each of the three workouts has a specific goal. That’s something few runners have considered.

“With most runners, when I ask them what they’re hoping to accomplish on a given run, they look back at me with a blank stare,” says Pierce. “I don’t think they’ve ever thought about this question before. We have.” The three FIRST workouts - a long run, a tempo run and a speed workout - are designed to improve your endurance, lactate threshold running pace and leg speed.

3 Build Your Long Run to 32km

The FIRST marathon training programme builds up to two 32-km workouts, the second one taking place three weeks before your marathon race date. But covering 32km is the easy part of the FIRST programme. The harder part is the pace - 40 to 45 seconds slower per km than your 10-K race pace. Many other marathon programmes allow you to run slower than this, by as much as 80 seconds per km.

“It’s true that our long runs won’t let you admire the scenery as much,” says Pierce. “But they aren’t painful either. They just push you a little beyond the comfort zone. If you’re going to race a marathon, you have to do some hard long runs to get the toughness and focus you’ll need on race day.”
4 Run Three Different Kinds of Tempo Runs
The tempo runs is a mainstay of many training programmes, but the FIRST programme carries the concept a little further than most, adding more variety and nuance. FIRST runners do three different kinds of tempo runs - short temps (5 to 7km), mid temps (8 to 12km) and long temps (13 to 16km). Each of these is run at a different pace.

“We’ve found that the long tempo run is particularly helpful,” says Pierce. “You’re basically running at your marathon goal pace, so you’re getting maximum specificity of training, and improving your efficiency at the pace you want to run in your marathon.”

5 Put More Variety in Your Speedwork
Many runners do no speedwork at all. Those who do often fall into a rut, running the same workout time after time. Pierce learned long ago that this approach makes speedwork much harder than it should be.

“I used to run the same speed workout week after week,” he recalls. “After a while, I would start to dread that workout. Speedwork is much easier when you change it around a lot.”

The FIRST runners do many different speed workouts at different paces, generally taking just a 400-metre jog between the fast repeats. For the sake of simplicity, we’ve narrowed the selection to four distances at four paces. (See The FIRST Paces on page ??). But be creative. Pierce has just one more rule for speed training: Start modestly, but after a month, try to get the total distance of all the fast repeats to equal about 5000 metres (i.e. running 5x1000m, or 12 to 13x400m).

6 Cross-Train Twice a Week… Hard
Last year the FIRST coaches asked their subjects to cross-train twice a week, but they didn’t provide any additional instruction. This year, they will, because they think many of the runners loafed through the cross-training last year. This caused them to miss out on some potential training benefits.

“We believe that if you do cross-training correctly, you can use it to increase your overall training intensity, without increasing your injury risk,” says Pierce. “At the same time, you can still go out and run hard the next day.” But the point is this: Even though last year’s test group didn’t cross-train as hard as they could have or should have, they still set a slew of PBs.

7 Don’t Try to Make up for Lost Time
During a 16-week marathon programme, lots of stuff happens. You get sick; you sprain your ankle; you have to go on several last-minute business trips. And so on. Result: You miss some key workouts, maybe even several weeks of workouts. Then what?

“You can’t make up what you missed,” says Pierce, “and you certainly shouldn’t double up on your workouts to catch up with your programme. Often, if you had a slight cold or too much travel, you can recover and get back where you want to be relatively quickly. But if you have foot pain or ITB syndrome or something like that, you’ve got to take care of your injury first, and get healthy again.”

This can take weeks, and it’s really tough if you’ve been looking forward to a big race. You have to accept it, though, and often you get better and can run an accompanying half marathon. But you shouldn’t try the marathon until you’re fully prepared for it. Reschedule another in a few months’ time.

8 Follow a Three-Week Taper
The FIRST programme builds for 13 weeks, with the second 32km long run coming at the end of the thirteenth week. After that, the programme begins to taper off, with 24km and 16km long runs during weeks 14 and 15. The speedwork and tempo runs taper down just a little, with a final 13km tempo run at marathon goal pace coming 10 days before the marathon.

“The marathon taper has tripled in length during my career,” Pierce notes. “When I first started out in the 1970s, we only did a six-day taper for our marathons. Now the conventional wisdom is three weeks. That makes sense. It seems the right amount of time to make sure you’ve got the maximum spring back in your step.”

If you feel sluggish doing just the easy running in the final week (this is very common, by the way), do five or six 100-metre strides or pick-ups after the Tuesday and Thursday workouts. Get in some extra stretching afterward as well.